

L Number	Hits	Search Text	DB	Time stamp
1	6002	(indol or indolyl) and (piperidinyl or tetrahydropyridin or tetrahydropyridine)	USPAT; US-PGPUB	2003/06/09 13:43
2	726	((indol or indolyl) and (piperidinyl or tetrahydropyridin or tetrahydropyridine)) and (serotonin or '5-HT')	USPAT; US-PGPUB.	2003/06/09 13:45

EAST

10/053,168

1/2

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now available on STN
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NEWS 13 Nov 18 DKILIT has been renamed APOLLIT
NEWS 14 Nov 25 More calculated properties added to REGISTRY
NEWS 15 Dec 04 CSA files on STN
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17 Dec 17 TOXCENTER enhanced with additional content
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 20 Feb 13 CANCERLIT is no longer being updated
NEWS 21 Feb 24 METADEX enhancements
NEWS 22 Feb 24 PCTGEN now available on STN
NEWS 23 Feb 24 TEMA now available on STN
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 25 Feb 26 PCTFULL now contains images
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27 Mar 20 EVENTLINE will be removed from STN
NEWS 28 Mar 24 PATDPAFULL now available on STN
NEWS 29 Mar 24 Additional information for trade-named substances without
structures available in REGISTRY
NEWS 30 Apr 11 Display formats in DGENE enhanced
NEWS 31 Apr 14 MEDLINE Reload
NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced
NEWS 33 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in
WPIDS/WPINDEX/WPIX
NEWS 35 Apr 28 RDISCLOSURE now available on STN
NEWS 36 May 05 Pharmacokinetic information and systematic chemical names
added to PHAR
NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded
NEWS 38 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39 May 16 CHEMREACT will be removed from STN
NEWS 40 May 19 Simultaneous left and right truncation added to WSCA
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and
right truncation
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB
NEWS 43 Jun 06 PASCAL enhanced with additional data

10/ 053,168

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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FILE 'HOME' ENTERED AT 12:05:21 ON 07 JUN 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 12:05:34 ON 07 JUN 2003

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STRUCTURE FILE UPDATES: 6 JUN 2003 HIGHEST RN 526915-11-7

DICTIONARY FILE UPDATES: 6 JUN 2003 HIGHEST RN 526915-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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Uploading 10053168.str

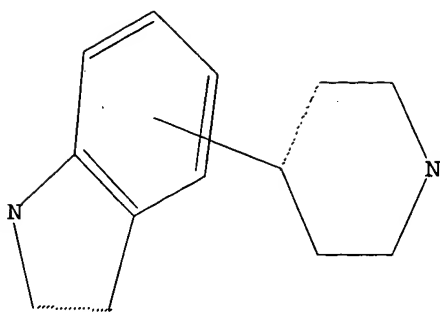
L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

10/ 053,168



Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 12:05:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - >1,000,000 TO ITERATE

< 38.7% PROCESSED 400000 ITERATIONS

174 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.06

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**

PROJECTED ITERATIONS: EXCEEDS 1000000

PROJECTED ANSWERS: EXCEEDS 386

L2 174 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

148.36

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FILE COVERS 1907 - 7 Jun 2003 VOL 138 ISS 24

FILE LAST UPDATED: 6 Jun 2003 (20030606/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2

L3

35 L2

=> d 13 1- ibib abs hitstr

YOU HAVE REQUESTED DATA FROM 35 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:261828 CAPLUS

DOCUMENT NUMBER: 138:287668

TITLE: Preparation of substituted 3-pyridyl indoles and indazoles as C17,20 lyase inhibitors

INVENTOR(S): Ladouceur, Gaetan H.; Burke, Michael J.; Wong, Wai C.; Bierer, Donald

PATENT ASSIGNEE(S): Bayer Corporation, USA

SOURCE: PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027094	A2	20030403	WO 2002-US30482	20020926

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

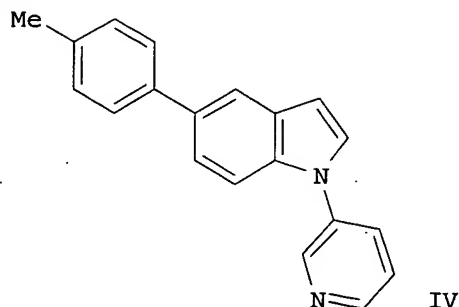
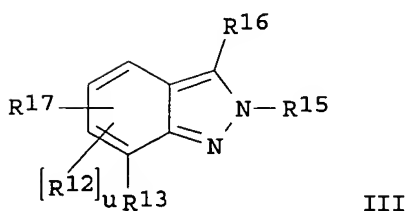
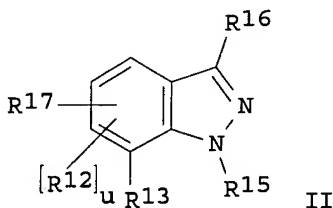
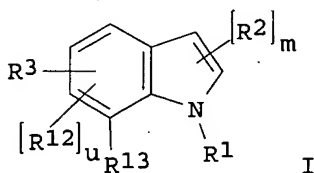
PRIORITY APPLN. INFO.:

US 2001-324993P P 20010926

OTHER SOURCE(S):

MARPAT 138:287668

GI



AB The title compds. [I (wherein R1 = (un)substituted pyridyl, pyridyl N-oxide, Ph; R2 = alkyl; m = 0-2; R3 = (un)substituted pyridyl, pyridyl N-oxide, Ph, etc.; R12 = alkyl, alkoxy, halo, etc.; u = 0-2; one of R1 and R3 is a 3-pyridyl or 3-pyridyl N-oxide which is unsubstituted at the 2- and 6- positions), II, III (wherein R12 = alkyl, alkoxy, halo, etc.; R13 = H, R12; R15 = (un)substituted pyridyl, pyridyl N-oxide; R16 = H, alkyl; R17 = (un)substituted pyridyl, Ph; one of R15 and R17 is a 3-pyridyl or 3-pyridyl N-oxide which is unsubstituted at the 2- and 6- positions)], useful as inhibitors of lyases, e.g., the 17.alpha.-hydroxylase-C17,20 enzyme, for treating prostate cancer or breast cancer, were prepd. Thus, coupling 5-bromo-1-(3-pyridyl)-1H-indole (prepn. given) with 4-methylphenylboronic acid in the presence of Pd(PPh3)4 and Na2CO3 in DME afforded the indole IV. All compds. tested have IC50 in the human C17,20 biochem. assay or the human C17,20 cellular assay of less than 10 .mu.M.

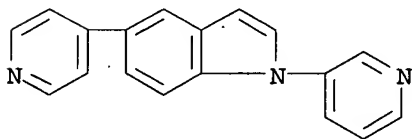
IT 504424-27-5P 504424-47-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3-pyridyl indoles and indazoles as C17,20 lyase inhibitors)

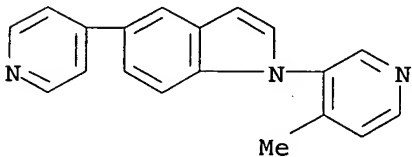
RN 504424-27-5 CAPLUS

CN 1H-Indole, 1-(3-pyridinyl)-5-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 504424-47-9 CAPLUS

CN 1H-Indole, 1-(4-methyl-3-pyridinyl)-5-(4-pyridinyl)- (9CI) (CA INDEX NAME)



L3 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:5957 CAPLUS

DOCUMENT NUMBER: 138:55984

TITLE: Preparation of azaindoles as protein kinase inhibitors
INVENTOR(S): Cox, Paul Joseph; Majid, Tahir Nadeem; Lai, Justine Yeun Quai; Morley, Andrew; Amendola, Shelley; Deprets, Stephanie Daniele; Edlin, Chris; Gardner, Charles J.; Kominos, Dorothea; Pedgrift, Brian Leslie; Halley, Frank; Gillespy, Timothy Alan; Edwards, Michael; Clerc, Francois Frederic; Nemecek, Conception; Houille, Olivier; Damour, Dominique; Bouchard, Herve; Bezard, Daniel; Carrez, Chantal

PATENT ASSIGNEE(S): Aventis Pharma Limited, UK

SOURCE: PCT Int. Appl., 373 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

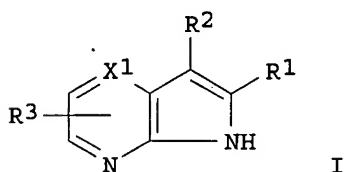
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003000688	A1	20030103	WO 2002-GB2799	20020620
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			GB 2001-15109	A 20010621
			US 2001-300257P	P 20010622

OTHER SOURCE(S): MARPAT 138:55984
GI



AB The invention is directed to physiol. active azaindoles (shown as I; variables defined below; e.g. 6-(5-methoxy-1-methyl-1H-indol-3-yl)-5H-pyrrolo[2,3-b]pyrazine) and compns. contg. such compds.; and their prodrugs, and pharmaceutically acceptable salts and solvates of such compds. and their prodrugs. Such compds. and compns. have valuable pharmaceutical properties, in particular the ability to inhibit kinases, esp. Syk, FAK, KDR, Aurora2 and IGF1R (data given in general rather than for specific I). Although the methods of prepn. are not claimed, >100 example prepn. of intermediates and I are included. For I: R1 = aryl or heteroaryl each optionally substituted by .gtoreq.1 groups = alkylendioxy, alkenyl, alkenyloxy, alkynyl, aryl, cyano, halo, hydroxy, heteroaryl, heterocycloalkyl, nitro, R4, -C(O)R, -C(O)OR5, -C(O)NY1Y2, -NY1Y2, -N(R6)C(O)R7, -N(R6)C(O)NY3Y4, -N(R6)C(O)OR7, -N(R6)SO2R7, -N(R6)SO2NY3Y4, -SO2NY1Y2 and -Z2R4. R2 = H, acyl, cyano, halo, lower alkenyl, -Z2R4, -SO2NY3Y4, -NY1Y2 or lower alkyl optionally substituted by aryl, cyano, heteroaryl, heterocycloalkyl, hydroxy, -Z2R4, -C(O)NY1Y2, -C(O)R, -CO2R8, -NY3Y4, -N(R6)C(O)R, -N(R6)C(O)NY1Y2, -N(R6)C(O)OR7, -N(R6)SO2R7, -N(R6)SO2NY3Y4, -SO2NY1Y2 and .gtoreq.1 halogen atoms. R3 = H, aryl, cyano, halo, heteroaryl, lower alkyl, -Z2R4, -C(O)OR5 or -C(O)NY3Y4. R4 = alkyl, cycloalkyl, cycloalkylalkyl, heterocycloalkyl or heterocycloalkylalkyl each optionally substituted by aryl, cycloalkyl, cyano, halo, heteroaryl, heterocycloalkyl, -CHO (or a 5- 6- or 7-membered cyclic acetal deriv. thereof), -C(O)NY1Y2, -C(O)OR5, -NY1Y2, -N(R6)C(O)R7, -N(R6)C(O)NY3Y4, -N(R6)SO2R7, -N(R6)SO2NY3Y4, -Z3R7 and .gtoreq.1 hydroxy, alkoxy and carboxy. R5 = H, alkyl, alkenyl, aryl, arylalkyl, heteroaryl or heteroarylalkyl. R6 = H or lower alkyl; R7 = alkyl, aryl, arylalkyl, cycloalkyl, cycloalkylalkyl, heteroaryl, heteroarylalkyl, heterocycloalkyl or heterocycloalkylalkyl; R8 = H or lower alkyl. R = aryl or heteroaryl; alkenyl; or alkyl, cycloalkyl, cycloalkylalkyl, heterocycloalkyl or heterocycloalkylalkyl each optionally substituted by aryl, cycloalkyl, cyano, halo, heteroaryl, heterocycloalkyl, -CHO (or a 5- 6- or 7-membered cyclic acetal deriv. thereof), -C(O)NY1Y2, -C(O)OR5, -NY1Y2, -N(R6)C(O)R7,

-N(R6)C(O)NY3Y4, -N(R6)SO2R7, -N(R6)SO2NY3Y4, -Z3R7 and .gtoreq.1 hydroxy, alkoxy and carboxy. X1 = N, CH, C-aryl, C-heteroaryl, C-heterocycloalkyl, C-heterocycloalkenyl, C-halo, C-CN, C-R4, CNY1Y2, COH, CZ2R, CC(O)R, CC(O)OR5, CC(O)NY1Y2, CN(R8)C(O)R, CN(R6)C(O)OR7, CN(R6)C(O)NY3Y4, CN(R6)SO2NY3Y4, CN(R6)SO2R, CSO2NY3Y4, C-NO2, or C-alkenyl or C-alkynyl optionally substituted by .gtoreq.1 aryl, cyano, halo, hydroxy, heteroaryl, heterocycloalkyl, nitro, -C(O)NY1Y2, -C(O)OR5, -NNY1Y2, -N(R6)C(O)R7, -N(R6)C(O)NY3Y4, -N(R6)C(O)OR7, -N(R6)SO2R7, -N(R6)SO2NY3Y4, -SO2NY1Y2 and -Z2R4. Y1 and Y2 = H, alkenyl, aryl, cycloalkyl, heteroaryl or alkyl optionally substituted by .gtoreq.1 aryl, halo, heteroaryl, heterocycloalkyl, hydroxy, -C(O)NY3Y4, -C(O)OR5, NY3Y4, -N(R6)C(O)R7, -N(R6)C(O)NY3Y4, -N(R6)SO2R7, -N(R6)SO2NY3Y4 and -OR7, or the group -NY1Y2 may form a cyclic amine. Y3 and Y4 = H, alkenyl, alkyl, aryl, arylalkyl, cycloalkyl, heteroaryl or heteroarylalkyl; or the group -NY3Y4 may form a cyclic amine; Z1 = O or S; Z2 = O or S(O)n; Z3 = O, S(O)n, NR6; n = 0-2.

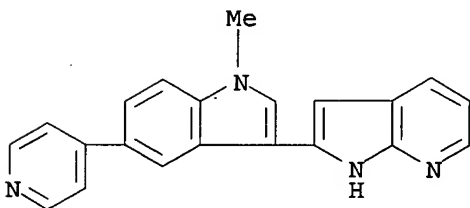
IT 348639-47-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; prepn. of azaindoles as protein kinase inhibitors with therapeutic uses)

RN 348639-47-4 CAPLUS

CN 1H-Pyrrolo[2,3-b]pyridine, 2-[1-methyl-5-(4-pyridinyl)-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



IT 348639-46-3P, 2-[5-(Pyridin-4-yl)-1-methyl-1H-indol-3-yl]-1-

(toluene-4-sulfonyl)-1H-pyrrolo[2,3-b]pyridine 348640-91-5P,

2-[5-(1-Benzyloxycarbonyl-1,2,5,6-tetrahydropyridin-4-yl)-1-methyl-1H-indol-3-yl]-1-(toluene-4-sulfonyl)-1H-pyrrolo[2,3-b]pyridine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of azaindoles as protein kinase inhibitors with therapeutic uses)

RN 348639-46-3 CAPLUS

CN 1H-Pyrrolo[2,3-b]pyridine, 1-[(4-methylphenyl)sulfonyl]-2-[1-methyl-5-(4-pyridinyl)-1H-indol-3-yl]- (9CI) (CA INDEX NAME)

OTHER SOURCE(S) :
GI



AB The title compds. [I; R1 = S(O)0-2A, COA, (CH₂)0-1A (wherein A = (un)substituted aryl, heteroaryl); R2 = H, alkyl, alkoxy, alkylthio; R3 = H, alkyl; R4 = H, halo, alkyl, alkoxy, alkylthio, etc.; one of R5-R7 = II (wherein W = CH, N; R8-R10 = H, alkyl; or R8 and R9 together may form alkylene) and the others = H, halo, alkyl, etc.] and their pharmaceutically acceptable salts which have generally 5-HT₆ receptor affinity, were prepd. and formulated. E.g., a 6-step synthesis of I.HCl [R1 = SO₂Ph; R2-R6 = H; R7 = piperazino], starting with 3-methyl-2-nitrophenol, which showed pK_i of 9.28 against 5-HT₆ receptor binding, was given.

IT 478082-67-6P 478082-68-7P 478082-95-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

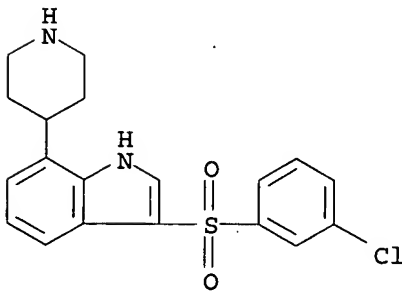
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RN 478082-67-6 CAPLUS

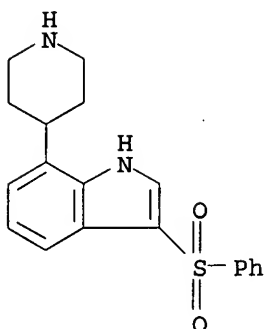
CN 1H-Indole, 3-[(3-chlorophenyl)sulfonyl]-7-(4-piperidinyl)- (9CI) (CA
INDEX NAME)



10/ 053,168

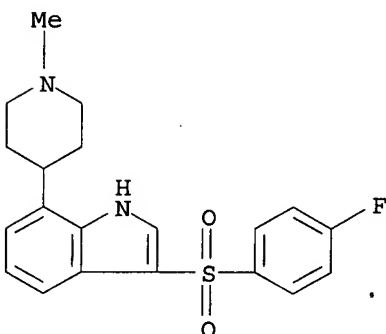
RN 478082-68-7 CAPLUS

CN 1H-Indole, 3-(phenylsulfonyl)-7-(4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 478082-95-0 CAPLUS

CN 1H-Indole, 3-[(4-fluorophenyl)sulfonyl]-7-(1-methyl-4-piperidinyl)- (9CI)
(CA INDEX NAME)



IT 478083-12-4P 478083-13-5P 478083-14-6P

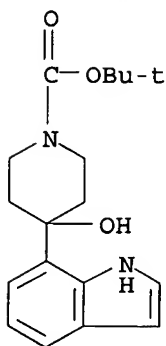
478083-19-1P 478083-20-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepn. of new indoles with 5-HT₆ receptor affinity)

RN 478083-12-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-hydroxy-4-(1H-indol-7-yl)-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

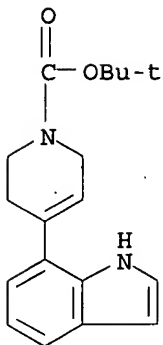


RN 478083-13-5 CAPLUS

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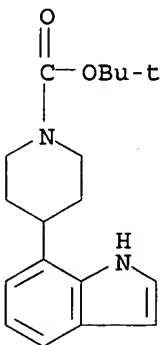
10/ 053,168

1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



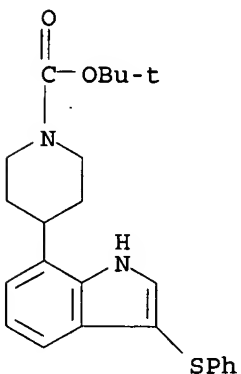
RN 478083-14-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-(1H-indol-7-yl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



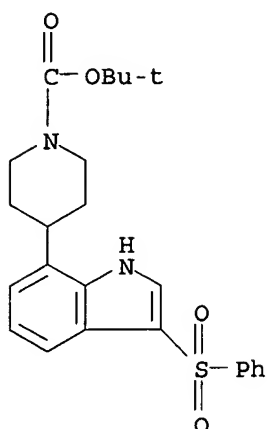
RN 478083-19-1 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[3-(phenylthio)-1H-indol-7-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 478083-20-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[3-(phenylsulfonyl)-1H-indol-7-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:921906 CAPLUS

DOCUMENT NUMBER: 138:4519

TITLE: Preparation of arylhydrazines and substituted indoles from aromatic compounds and hydrazones.

INVENTOR(S): Hicks, Frederick; Gou, Da-Ming; Marchese, Salvatore Anthony; Martel, Lawrence J.; Necula, Atena; Benetti, Richard E.; Silva, Richard A.

PATENT ASSIGNEE(S): Rhodia Chirex Inc., USA

SOURCE: U.S., 10 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6489512	B1	20021203	US 2002-177381	20020621
PRIORITY APPLN. INFO.:			US 2002-177381	20020621

OTHER SOURCE(S): CASREACT 138:4519

AB Arylhydrazines were prepd. by (a) reacting a substrate arom. compd. bearing an activated C atom and a hydrazone in the presence of a transition metal catalyst to form an aryl hydrazone having a new C-N bond between the activated C of the substrate arom. compd. and a N atom of the hydrazone, and (b) hydrolyzing the aryl hydrazone. Thus, Pd(OAc)₂, 2-dicyclohexylphosphino-2'-(N,N-dimethylamino)biphenyl, Na tert-butoxide, 4-(1-aza-1-methylcyclohex-3-en-4-yl)-1-chlorobenzene (prepn. given), and benzophenone hydrazone were heated in PhMe at 80.degree. for 20 h to give 76% 4-(1-aza-1-methylcyclohex-3-en-4-yl)phenyl benzophenone hydrazone. The latter was heated with ethanolic HCl at 100.degree. for 25 min. to give 93.6% 4-(1-aza-1-methylcyclohex-3-en-4-yl)phenylhydrazine hydrochloride. This in H₂O/EtOH was treated with 4-(N,N-dimethylamino)butyral di-Me acetal then with CF₃CO₂H followed by stirring for 6 h at 55.degree. to give 5-(1-aza-1-methylcyclohex-3-en-4-yl)-3-(2-dimethylaminoethyl)-1H-indole hydrochloride.

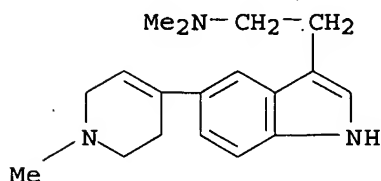
IT 251967-66-5P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of arylhydrazines and substituted indoles from arom. compds. and hydrazones)

RN 251967-66-5 CAPLUS

CN 1H-Indole-3-ethanamine, N,N-dimethyl-5-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:716249 CAPLUS

DOCUMENT NUMBER: 137:232553

TITLE: Preparation of functionalized indoles, benzimidazolones and related heterocycles as modulators of CCR-5 chemokine receptor and use in treating patients with HIV

INVENTOR(S): Harriman, Geraldine C. B.; Carson, Kenneth G.; Flynn, Daniel L.; Solomon, Michael E.; Song, Yuntao; Trivedi, Bharat K.; Roth, Bruce D.; Kolz, Christine N.; Pham, Ly; Sun, Kuai-Lin

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA; Warner-Lambert Company

SOURCE: PCT Int. Appl., 307 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

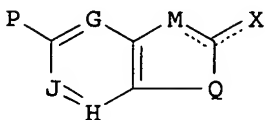
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002072549	A1	20020919	WO 2002-US7559	20020312
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003064991	A1	20030403	US 2002-96361	20020312

PRIORITY APPLN. INFO.: US 2001-275248P P 20010312

OTHER SOURCE(S): MARPAT 137:232553

GI



AB Disclosed are novel compds. (shown as I; e.g. 1-benzyl-5-(2-diethylaminoethoxy)-2-methyl-1H-indole-3-carboxylic acid) or a physiol. acceptable salt, amide, ester or prodrug thereof. The compds. can be used to modulate (antagonize, agonize) chemokine receptor function. Also disclosed is a method for treating a patient having an inflammatory disease and/or viral infection comprising administering an effective amt. of I. In particular embodiments, the invention is a method for treating a patient infected with HIV. The compds. of the present invention were evaluated using a described CCR-5 receptor binding assay. Particularly preferred compds. of the invention can inhibit the binding of sCD-4/GP-120 to CCR-5 by about fifty percent at a concn. of .1 to req. .apprx. 200 .mu.M (IC50 .1 to req. 200 .mu.M). For example the IC50 values for 1-[2-(3-benzoyloxycarbonyl-2-methyl-1H-indol-5-yloxy)ethyl]-3-phenylpyrrolidinium chloride and 1-benzyl-5-(2-diethylaminoethoxy)-2-methyl-1H-indole-3-carboxylic acid benzyl ester were 18.0 and 18.2 .mu.M, resp. 2-Methyl-5-(2-pyrrolidine-1-ylethylamino)-1H-indole-3-carboxylic acid benzyl ester caused 50% inhibition at 17.5 .mu.M. 2-Methyl-5-(2-pyrrolidin-1-ylethyl)-1H-indole-3-carboxylic acid benzyl ester hydrochloride and 5-(2-dimethylaminoethoxy)-2-methyl-1H-indole-3-carboxylic acid (S)-1-phenylethyl ester had IC50s of .apprx. 4.8 .mu.M. 2-Methyl-5-[2-[methyl(tetrahydropyran-4-yl)amino]ethyl]-1H-indole-3-carboxylic acid benzyl ester had an IC50 of 13.9 .+- 1.6 .mu.M. 2-Methyl-5-(pyrrolidin-1-ylethoxy)-1H-indole-3-carboxylic acid benzyl ester, 2-methyl-5-(1-methyl-2-pyrrolidin-1-ylpropoxy)-1H-indole-3-carboxylic acid benzyl ester and 5-(2-diethylaminoethyl)-2-methyl-1H-indole-3-carboxylic acid benzyl ester hydrochloride had IC50s of 20.3 .+- 2.8 .mu.M, 5.52 .+- 1.1 .mu.M and 1.93 .+- 0.32 .mu.M, resp. Preferred compds. can inhibit the binding of sCD-4/GP-120 to CCR-5 with IC50s of .apprx. 10 .mu.M to .apprx. 100 .mu.M or .apprx. 1 nM to .apprx. 10 .mu.M. Although the methods of prepn. are not claimed, >200 example preps. are included. In I, G is CR1 or N; J is CR2 or N; H is CR3 or N; M is C-Y, CH-Y, N-Y or N; Q is NR4, SR4, O, SO or SO2. X is H, halogen, C1-C8 alkyl, substituted C1-C8 alkyl, C2-C8 alkenyl, substituted C2-C8 alkenyl, C2-C8 alkynyl, substituted C2-C8 alkynyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, arylalkyl, alkylaryl, heteroarylalkyl, alkylheteroaryl, O, NR5, S, SR5 or NR5R6. Y is CO2R17, C(O)NR17R18, R19, C(O)R17, 3-R17-1,2,4-oxadiazol-5-yl, 5-R17-1,3,4-oxadiazol-2-yl. P is -A-L-N-contg. heteroaryl, -A-L-substituted N-contg. heteroaryl, -A-L-NR7R8, -(CR10R11)c-cyclo-CR9(CH2)a(CH2)bNR7, wherein a, b and c are independently, 0-4 with provisos; A is O, N(R12), a bond or is absent. L is C1-C8 alkyl, substituted C1-C8 alkyl, C2-C8 alkenyl, substituted C2-C8 alkenyl, C2-C8 alkynyl, substituted C2-C8 alkynyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, arylalkyl, alkylaryl, heteroarylalkyl, alkylheteroaryl, a bond, or -C(R13)(R14)C(R15)(R16)- wherein A is attached on the right and N is attached on the left. R1, R2, R3, R11, R13, R14, R15, R16 and R19 are independently, H, C1-C8 alkyl, substituted C1-C8 alkyl, C2-C8 alkenyl, substituted C2-C8 alkenyl, C2-C8 alkynyl, substituted C2-C8 alkynyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, arylalkyl, alkylaryl, heteroarylalkyl, alkylheteroaryl, halogen, C1-C8 alkoxy, C(O)R22, CO2R22, C(O)NR22R23, NR22R23, CZR22R23. Z is aryl, substituted aryl, heteroaryl or substituted heteroaryl; R22 and R23 are independently, H, C1-C8 alkyl, substituted C1-C8 alkyl, C2-C8 alkenyl, substituted C2-C8 alkenyl, C2-C8 alkynyl, substituted C2-C8 alkynyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, arylalkyl, alkylaryl, heteroarylalkyl, alkylheteroaryl; or R22 and R23 taken together with the atoms to which they are bonded can form a 3-8 membered cyclic ring which can contain 0-3 heteroatoms selected from O, N and S. R4-R9, R12, R17 and R18 are independently, H, C1-C8 alkyl, substituted C1-C8 alkyl, C2-C8 alkenyl, substituted C2-C8 alkenyl, C2-C8 alkynyl, substituted C2-C8 alkynyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, arylalkyl, alkylaryl, heteroarylalkyl,

alkylheteroaryl, C(O)R20, CO2R20, CZ'R20R21; R20 and R21 are independently H, C1-C8 alkyl, substituted C1-C8 alkyl, C2-C8 alkenyl, substituted C2-C8 alkenyl, C2-C8 alkynyl, substituted C2-C8 alkynyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, arylalkyl, alkylaryl, heteroarylalkyl or alkylheteroaryl; or R20 and R21 taken together with the atoms to which they are bonded can form a 3-8 membered cyclic ring which can contain 0-3 heteroatoms selected from O, N and S; Z' is aryl, substituted aryl, heteroaryl or substituted heteroaryl; or R1 taken together with any one of R7, R8, R9, R10, R11, R12, R13, R14, R15 or R16 and the atoms to which they are bonded form a substituted or unsubstituted 3-8 membered cyclic ring which can contain 0-3 heteroatoms selected from O, N and S. R2 taken together with any one of R3, R7, R8, R9, R10, R11, R12, R13, R14, R15 or R16 and the atoms to which they are bonded form a substituted or unsubstituted 3-8 membered cyclic ring which can contain 0-3 heteroatoms selected from O, N and S. P taken together with either R1 or R2 and the atoms to which they are bonded form a 5-8 membered substituted nonarom. ring that can contain a heteroatom selected from O, N and S. Any two of R7-R17, taken together with the atoms to which they are bonded form a substituted or unsubstituted 3-8 membered cyclic ring which can contain 0-3 heteroatoms selected from O, N and S; with provisos.

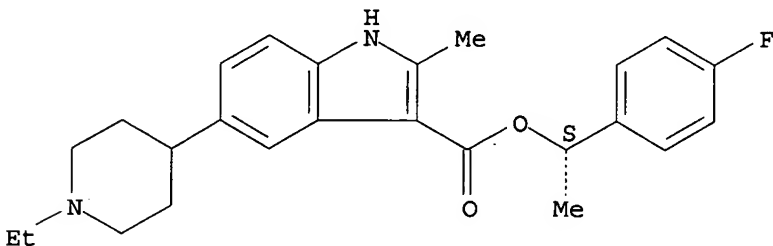
IT 459452-17-6P, 5-(1-Ethylpiperidin-4-yl)-2-methyl-1H-indole-3-carboxylic acid (S)-1-(4-fluorophenyl)ethyl ester 459452-18-7P, 5-(1-Ethylpiperidin-4-yl)-2-methyl-1H-indole-3-carboxylic acid (S)-1-(pyridin-4-yl)ethyl ester 459452-21-2P, 5-(1-Ethyl-4-methylpiperidin-4-yl)-2-methyl-1H-indole-3-carboxylic acid (S)-1-(4-fluorophenyl)ethyl ester 459452-22-3P, 5-(1-Ethyl-4-methylpiperidin-4-yl)-2-methyl-1H-indole-3-carboxylic acid (S)-1-(pyridin-4-yl)ethyl ester
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of functionalized indoles, benzimidazolones and related heterocycles as modulators of CCR-5 chemokine receptor and use in treating patients with HIV)

RN 459452-17-6 CAPLUS

CN 1H-Indole-3-carboxylic acid, 5-(1-ethyl-4-piperidinyl)-2-methyl-, (1S)-1-(4-fluorophenyl)ethyl ester (9CI) (CA INDEX NAME)

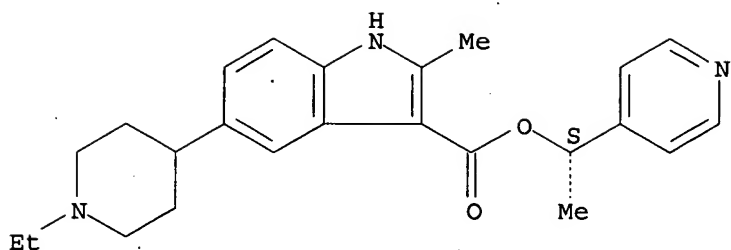
Absolute stereochemistry.



RN 459452-18-7 CAPLUS

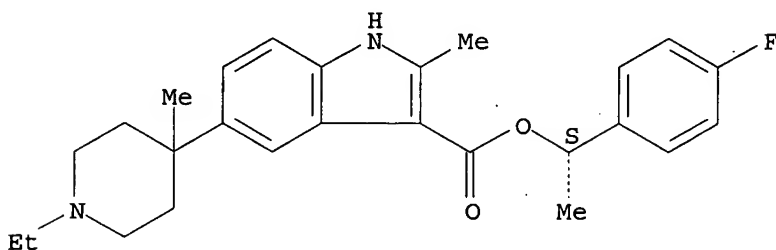
CN 1H-Indole-3-carboxylic acid, 5-(1-ethyl-4-piperidinyl)-2-methyl-, (1S)-1-(4-pyridinyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



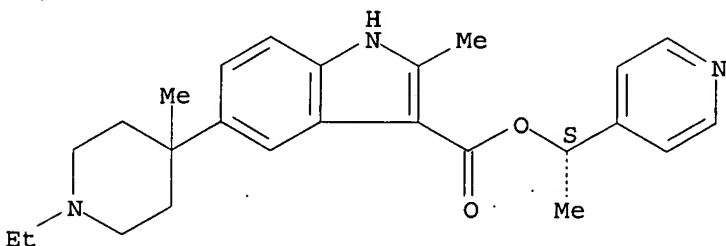
RN 459452-21-2 CAPLUS
 CN 1H-Indole-3-carboxylic acid, 5-(1-ethyl-4-methyl-4-piperidinyl)-2-methyl-,
 (1S)-1-(4-fluorophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 459452-22-3 CAPLUS
 CN 1H-Indole-3-carboxylic acid, 5-(1-ethyl-4-methyl-4-piperidinyl)-2-methyl-,
 (1S)-1-(4-pyridinyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:240778 CAPLUS

DOCUMENT NUMBER: 136:279356

TITLE: Preparation of substituted azepino[4,5-b]indoles as
 5-HT ligands

INVENTOR(S): Frank, Kristine E.; Fu, Jian-Min; Acker, Brad A.;
 Ennis, Michael D.; Fisher, Jed F.; Jacobsen, Eric Jon;
 McWhorter, William W.; Morris, Jeanette K.; Rogier,
 Donald Joseph, Jr.

PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA

SOURCE: PCT Int. Appl., 302 pp.

CODEN: PIXXD2

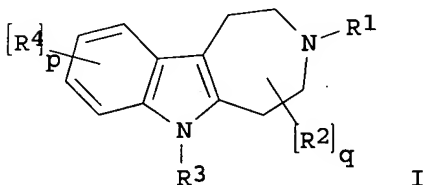
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024701	A2	20020328	WO 2001-US29535	20010920
WO 2002024701	A3	20020613		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001092898	A5	20020402	AU 2001-92898	20010920
US 2002077318	A1	20020620	US 2001-957319	20010920
US 2002107278	A1	20020808	US 2001-957625	20010920
PRIORITY APPLN. INFO.:			US 2000-234376P	P 20000920
			US 2001-266047P	P 20010201
			US 2001-301964P	P 20010629
			WO 2001-US29535	W 20010920

OTHER SOURCE(S): MARPAT 136:279356
GI



AB The title compds. [I; R1 = H, alkyl, etc.; R2 = alkyl, OH; R3 = H, alkyl, aryl, etc.; R4 = alkyl, alkoxy, halo, etc.; p = 0-4; q = 0-8] and their pharmaceutical salts which are 5-HT ligands and are useful for treating diseases, disorders, and/or conditions in a mammal wherein activity of a 5-HT receptor is implicated such as anxiety, depression, schizophrenia, epilepsy, migraine, Alzheimer's disease, sleep disorders, obesity, a stress related disease, or withdrawal from drug abuse, were prepd. Thus, reacting 3-benzoyl-7-bromo-1,2,3,4,5,6-hexahydroazepino[4,5-b]indole with phenylboronic acid (86%) followed by redn. of the resulting 3-benzoyl-7-phenyl-1,2,3,4,5,6-hexahydroazepino[4,5-b]indole with LiAlH4 (92%) afforded I [R1 = CH2Ph; R2, R3 = H; R4 = 7-Ph].

IT 405306-70-9P 405311-78-6P

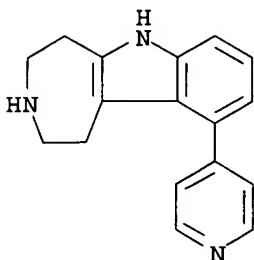
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of substituted azepino[4,5-b]indoles as 5-HT ligands)

RN 405306-70-9 CAPLUS

CN Azepino[4,5-b]indole, 1,2,3,4,5,6-hexahydro-10-(4-pyridinyl)- (9CI) (CA INDEX NAME)

10/ 053,168



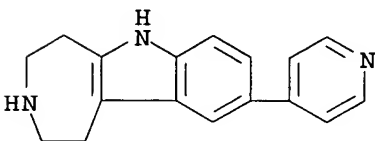
RN 405311-78-6 CAPLUS

CN Formic acid, compd. with 1,2,3,4,5,6-hexahydro-9-(4-pyridinyl)azepino[4,5-b]indole (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 405311-77-5

CMF C17 H17 N3



CM 2

CRN 64-18-6

CMF C H2 O2

O=CH-OH

L3 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:240777 CAPLUS

DOCUMENT NUMBER: 136:279440

TITLE: Preparation of azepino[4,5-b]indolines as 5-HT receptor ligands for treatment of central nervous system disorders

INVENTOR(S): Frank, Kristine E.; Fu, Jian-Min; Acker, Brad A.; Ennis, Michael D.; Fisher, Jed F.; Jacobsen, Eric Jon; McWhorter, William W.; Morris, Jeanette K.; Rogier, Donald Joseph, Jr.

PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA

SOURCE: PCT Int. Appl., 359 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024700	A2	20020328	WO 2001-US29447	20010920
WO 2002024700	A3	20020613		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

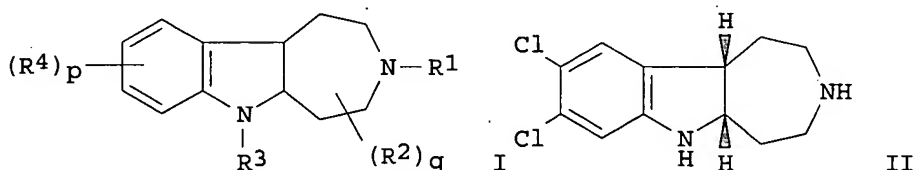
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001094606 A5 20020402 AU 2001-94606 20010920
 US 2002077318 A1 20020620 US 2001-957319 20010920
 US 2002107278 A1 20020808 US 2001-957625 20010920

PRIORITY APPLN. INFO.:

US 2000-234376P P 20000920
 US 2001-266047P P 20010201
 US 2001-301964P P 20010629
 WO 2001-US29447 W 20010920

OTHER SOURCE(S): MARPAT 136:279440
 GI



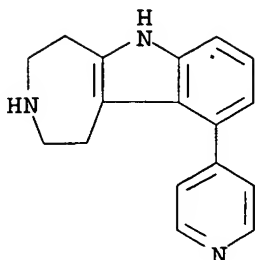
AB Title compds. I [wherein R1 = H, alkyl, and hydrocarbylene aryl; R2 = independently alkyl or OH; R3 = H, alkyl, (hetero)aryl, R7CO, R7OCO, R5R6NCO, R7CS, R7SCO, R5R6NCS, R7SO2, R5R6NSO2, R7SO, R5R6NSO, or substituted hydrocarbylene(CO); R4 = independently aryl(oxy), alkyl, heteroaryl, halo, OH, CN, NO2, CF3, CF3O, (un)substituted amino, etc.; R5 and R6 = independently H, (halo)alkyl, (cyclo)alkenyl, alkynyl, (hydrocarbylene)aryl; or NR5R6 = pyrrolidino, piperidino, morpholino, or thiomorpholino; R7 = independently H, (halo)alkyl, (cyclo)alkenyl, or (hydrocarbylene)aryl; p = 0-4; q = 0-10; or pharmaceutical salts thereof] and their azepino[4,5-b]indole precursors were prepd. For example, 3-benzoyl-8,9-dichloro-1,2,3,4,5,6-hexahydroazepino[4,5-b]indole was deprotected with KOH in ethylene glycol (73%) and the azepinoindole hydrogenated with Na(CN)BH3 in TFA (36%) to give the cis-azepinoindoline II. I are serotonin receptor 5-HT ligands that are useful for treating diseases of the central nervous system, such as anxiety, depression, and obesity (no data).

IT 405306-70-9P, 10-(4-Pyridinyl)-1,2,3,4,5,6-hexahydroazepino[4,5-b]indole 405311-78-6P, 9-Pyridin-4-yl-1,2,3,4,5,6-hexahydroazepino[4,5-b]indole formate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of azepino[4,5-b]indolines as 5-HT receptor ligands for treatment of central nervous system disorders)

RN 405306-70-9 CAPLUS

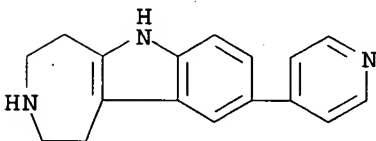
CN Azepino[4,5-b]indole, 1,2,3,4,5,6-hexahydro-10-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 405311-78-6 CAPLUS
 CN Formic acid, compd. with 1,2,3,4,5,6-hexahydro-9-(4-pyridinyl)azepino[4,5-b]indole (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 405311-77-5
 CMF C17 H17 N3



CM 2

CRN 64-18-6
 CMF C H2 O2

O=CH-OH

L3 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:72088 CAPLUS

DOCUMENT NUMBER: 136:134670

TITLE: Preparation of substituted 1-(4-aminophenyl)indoles and their use as anti-inflammatory agents, and in treatment of autoimmune diseases

INVENTOR(S): Sharma, Rajiv

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002006273	A1	20020124	WO 2001-US21670	20010709
W: CA, JP, MX				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
US 6353007	B1	20020305	US 2000-616014	20000713
EP 1303508	A1	20030423	EP 2001-952572	20010709

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY, TR

PRIORITY APPLN. INFO.:

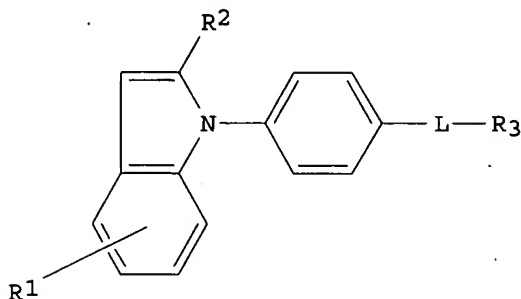
US 2000-616014 A 20000713

WO 2001-US21670 W 20010709

OTHER SOURCE(S):

MARPAT 136:134670

GI



AB The prepn. of 1-(4-Aminophenyl)indoles [I; wherein R1, R2 = same or different, H, CF3, halo, CN, (un)branched C1-8 alkyl; (un)branched C1-8 alkenyl, C3-8 cycloalkyl optionally substituted with OH, CN, OMe, C1-8 alkoxy, C1-4 alkyloxyalkyl, C1-8 alkylthio, C1-4 alkylthioalkyl, C1-8 dialkylamino, C1-4 dialkylaminoalkyl, organocarboxy, etc.; L = NHC(O), NHC(O)O, NHC(O)C(O), NHC(S), CNH, NHC(O)NH, NHC(S)NH, NHCH2, organoamino, etc.; R3 = C1-8 alkyl, C1-8 alkyloxy, C1-8 alkylthio, C1-8 alkylamino, C1-4 alkoxyalkyl, C1-4 alkylthioalkyl, C1-4 alkylaminoalkyl, C1-4 dialkylalkylaminoalkyl, carbocyclyl or heterocyclyl, which carbocyclyl or heterocyclyl is optionally substituted with one or more of the following: halo, CN, NO2, SO2NH2, etc., organocarboxy, organoamino], or a pharmaceutically acceptable deriv. thereof., is described. Thus, N-[4-(2-methylindol-1-yl)phenyl]pyridine-3-carboxamide was prepd. by a multistep synthesis, and had an IC50 value below 10.mu.M. The prepd. indoles inhibit IL-2 prodn. in T-lymphocytes, and thus are useful as anti-inflammatory agents, and in the treatment of autoimmune diseases.

IT 391914-05-9P 391914-06-0P 391914-09-3P

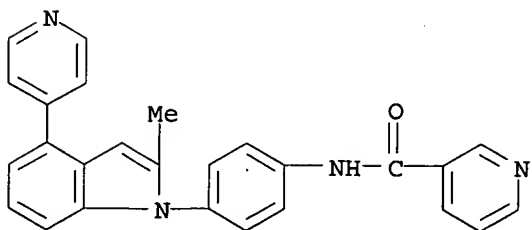
391914-10-6P 391914-13-9P 391914-14-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of substituted 1-(4-aminophenyl)indoles and use as anti-inflammatory agents, and in treatment of autoimmune diseases)

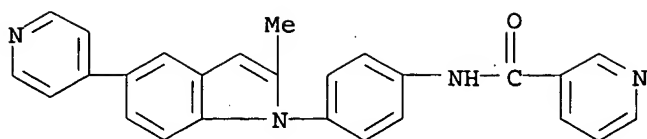
RN 391914-05-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[4-[2-methyl-4-(4-pyridinyl)-1H-indol-1-yl]phenyl]- (9CI) (CA INDEX NAME)

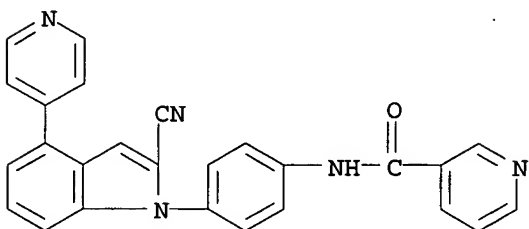


RN 391914-06-0 CAPLUS

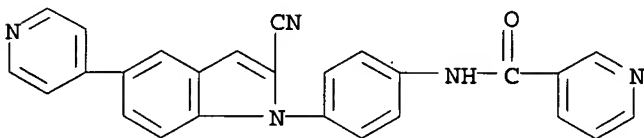
CN 3-Pyridinecarboxamide, N-[4-[2-methyl-5-(4-pyridinyl)-1H-indol-1-yl]phenyl]- (9CI) (CA INDEX NAME)



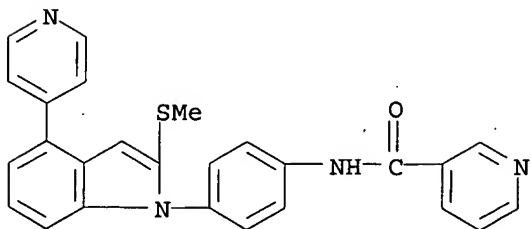
RN 391914-09-3 CAPLUS
CN 3-Pyridinecarboxamide, N-[4-[2-methyl-4-(4-pyridinyl)-1H-indol-1-yl]phenyl]-
(9CI) (CA INDEX NAME)



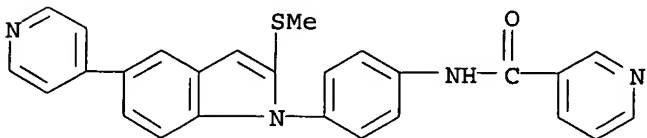
RN 391914-10-6 CAPLUS
CN 3-Pyridinecarboxamide, N-[4-[2-cyano-5-(4-pyridinyl)-1H-indol-1-yl]phenyl]-
(9CI) (CA INDEX NAME)



RN 391914-13-9 CAPLUS
CN 3-Pyridinecarboxamide, N-[4-[2-(methylthio)-4-(4-pyridinyl)-1H-indol-1-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 391914-14-0 CAPLUS
CN 3-Pyridinecarboxamide, N-[4-[2-(methylthio)-5-(4-pyridinyl)-1H-indol-1-yl]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:72052 CAPLUS

DOCUMENT NUMBER: 136:118474

TITLE: Preparation of dicyanopyridine derivatives as high-conductance calcium-sensitive potassium channel openers

INVENTOR(S): Harada, Hironori; Watanuki, Susumu; Takuwa, Tomofumi; Kawaguchi, Kenichi; Okazaki, Toshio; Hirano, Yuusuke; Saitoh, Chikashi

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

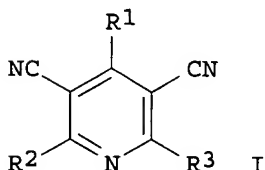
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002006237	A1	20020124	WO 2001-JP6136	20010716
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 2001069529 A5 20020130 AU 2001-69529 20010716 EP 1302463 A1 20030416 EP 2001-948028 20010716 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:				
			JP 2000-216982	A 20000718
			WO 2001-JP6136	W 20010716
OTHER SOURCE(S): MARPAT 136:118474				
GI				



AB Claimed are therapeutic agents for opening high-conductance calcium-sensitive potassium channel contg. the title compds. [I; R1 = H, (un)substituted lower alkyl, cycloalkyl, aryl, heteroaryl, or 5 to 6-membered satd. heterocyclyl; R2, R3 = OR4, S(O)nR4, NR4R5, NHCOR5, NHS(O)nR5, NHCONR4R5, N(COR5)2, halo, (un)substituted heteroaryl; wherein R4 = H, (un)substituted lower alkyl, lower alkenyl, alkynyl, aryl, heteroaryl, or 5 to 6-membered satd. heterocyclyl; R5 = H, (un)substituted lower alkyl, cycloalkyl, lower alkoxy-lower alkyl, aryloxy-lower alkyl, aryl-lower alkyl, (un)substituted aryl or heteroaryl; or R4 and R5 are taken together with the adjacent N atom to form a 5 to 6-membered satd. heterocyclyl or heteroaryl; n = 0, 1, 2] or salts thereof as the active ingredients. The compds. I exhibit excellent activity of opening the

maxi-K channel, also called as BK channel, and bladder smooth muscle contracting activity based on the maxi-K opening activity, and thus can be used in the treatment of frequent urination and urinary incontinence. Thus, 0.70 g Na was dissolved in 20 mL MeOH at room temp. with stirring, followed by adding 0.85 g malononitrile and 2.0g 2-(thiophen-3-ylmethylidene)malononitrile, and the resulting mixt. was refluxed with stirring for 3 h to give 2-amino-6-methoxy-4-(2-thienyl)pyridine-3,5-dicarbonitrile (II). II and 2-amino-6-(2-pyridylmethoxy)-4-(2-fluorophenyl)pyridine-3,5-dicarbonitrile showed IC₅₀ of 0.15 and 0.042 .mu.M, resp., for inhibiting the K⁺ ion-induced contraction of rat bladder.

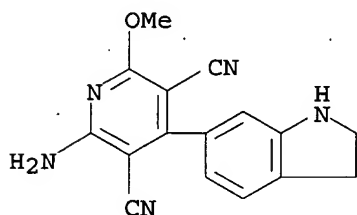
IT 391664-31-6P 391665-82-0P 391668-84-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of dicyanopyridine derivs. as high-conductance calcium-sensitive potassium channel openers for treatment of frequent urination and urinary incontinence)

RN 391664-31-6 CAPLUS

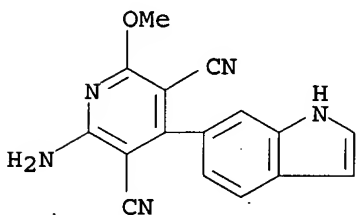
CN 3,5-Pyridinedicarbonitrile, 2-amino-4-(2,3-dihydro-1H-indol-6-yl)-6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)



⊗ HCl

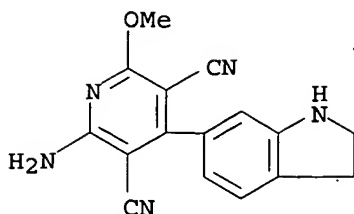
RN 391665-82-0 CAPLUS

CN 3,5-Pyridinedicarbonitrile, 2-amino-4-(1H-indol-6-yl)-6-methoxy- (9CI) (CA INDEX NAME)



RN 391668-84-1 CAPLUS

CN 3,5-Pyridinedicarbonitrile, 2-amino-4-(2,3-dihydro-1H-indol-6-yl)-6-methoxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:31440 CAPLUS

DOCUMENT NUMBER: 136:102386

TITLE: Preparation and use of 4-heteroaryl-3-heteroarylidenyl-2-indolinones and their use as protein kinase inhibitors

INVENTOR(S): Tang, Peng Cho; Wei, Chung Chen; Huang, Ping; Cui, Jingron

PATENT ASSIGNEE(S): Sugan, Inc., USA

SOURCE: PCT Int. Appl., 164 pp.

CODEN: PIXXD2

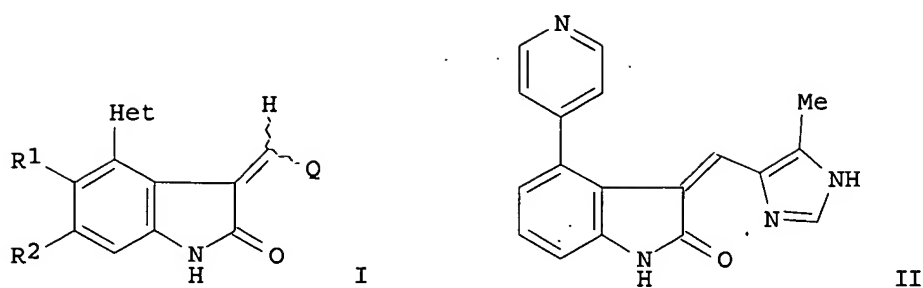
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002551	A1	20020110	WO 2001-US20768	20010629
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 2002187978 A1 20021212 US 2001-894902 20010629 EP 1296975 A1 20030402 EP 2001-948830 20010629 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2000-215654P	P 20000630
			WO 2001-US20768	W 20010629
OTHER SOURCE(S):			MARPAT 136:102386	
GI				



AB Title compds. I [R1-2 = H, alkyl, cycloalkyl, aryl, heteroaryl, heteroalicyclic, halo, etc.; Het = (un)substituted arom. heterocycle contg. at least one and not more than two N atoms, tetrahydro(thio)pyranyl, (thio)morpholino, piperidinyl, piperazinyl, tetrazolyl, etc.; Q = (un)substituted arom. heterocycle contg. not more than two N atoms, 5-membered ring (un)substituted heterocycle contg. N, O or S, e.g., imidazolyl, pyrrolyl, indolyl, etc.] with some exceptions, were prepd. Included are 75 synthetic examples and results for several protein tyrosine kinase assays for those compds. For instance, 4-bromoindole was coupled to bis(pinacolato)diborane (DMSO, KOAc, PdCl₂(dppf).bul.CH₂Cl₂, 80.degree.C, 22 h). The resulting dioxaborolane was coupled to 4-bromopyridine.bul.HCl (THF, Pd(PPh₃)₄, NaOH, 70.degree.C, 6 h) to give the indole which was treated with C₅H₅N.bul.Br₃ (t-BuOH/EtOH/H₂O, 1h) followed by zinc (stirred 1 addnl. hour) to give 4-(pyridin-4-yl)-1,3-dihydroindol-2-one as a yellow solid. Condensation of this intermediate with 5-methylimidazole-4-carboxaldehyde (EtOH, piperidine, 2 days) afforded II. II had IC₅₀ = 4.88 mM for FGFR-1 tyrosine kinase and 0.03 mM for cdk2/cyclin A tyrosine kinase. I are useful in treating cancer, immunol. disorders, etc.

IT 388116-44-7P 388116-45-8P 388116-46-9P
 388116-47-0P 388116-50-5P 388116-51-6P
 388116-52-7P 388116-54-9P 388116-55-0P
 388116-56-1P 388116-57-2P, 3-(1H-Indol-2-ylmethylene)-4-(pyridin-4-yl)-1,3-dihydroindol-2-one 388116-58-3P,
 4-(Pyridin-4-yl)-3-(4,5,6,7-tetrahydro-1H-indol-2-ylmethylene)-1,3-dihydroindol-2-one 388116-59-4P, 3-[5-(2-(Morpholin-4-yl)ethoxy)-1H-indol-2-ylmethylene]-4-(pyridin-4-yl)-1,3-dihydroindol-2-one
 388116-60-7P 388116-61-8P 388116-62-9P
 388116-64-1P 388116-65-2P 388116-66-3P
 388116-68-5P 388116-70-9P, 3-(5-Methylthiophen-2-ylmethylene)-4-(pyridin-4-yl)-1,3-dihydroindol-2-one 388116-71-0P
 , 3-(4-Morpholin-4-ylbenzylidene)-4-(pyridin-4-yl)-1,3-dihydroindol-2-one
 388116-72-1P 388116-73-2P 388116-74-3P
 388116-76-5P 388116-79-8P 388116-80-1P,
 3-[3-Methyl-4-((piperidin-1-yl)carbonyl)pyrrol-2-ylmethylene]-4-(piperidin-4-yl)-1,3-dihydroindol-2-one 388116-81-2P, 3-[3-Methyl-4-(morpholine-4-carbonyl)pyrrol-2-ylmethylene]-4-(piperidin-4-yl)-1,3-dihydroindol-2-one 388116-83-4P 388116-84-5P
 388116-85-6P 388116-86-7P, 3-(3,5-Dimethyl-1H-pyrrol-2-ylmethylene)-4-(piperidin-4-yl)-1,3-dihydroindol-2-one
 388116-87-8P 388116-88-9P 388116-89-0P
 388116-90-3P 388116-91-4P 388116-92-5P
 388116-93-6P, 3-(1H-Indol-2-ylmethylene)-4-(piperidin-4-yl)-1,3-dihydroindol-2-one 388116-94-7P, 4-(Piperidin-4-yl)-3-(4,5,6,7-tetrahydro-1H-indol-2-ylmethylene)-1,3-dihydroindol-2-one
 388116-95-8P, 3-[5-(2-(Morpholin-4-yl)ethoxy)-1H-indol-2-ylmethylene]-4-(piperidin-4-yl)-1,3-dihydroindol-2-one
 388116-96-9P 388116-97-0P 388116-98-1P,
 3-[3-(3-Morpholin-4-ylpropyl)-4,5,6,7-tetrahydro-1H-indol-2-ylmethylene]-4-

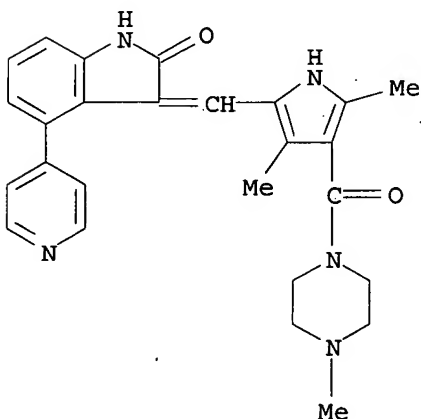
(piperidin-4-yl)-1,3-dihydroindol-2-one 388116-99-2P
 388117-00-8P, 3-[(3-Methyl-5-(4-methylpiperazin-1-ylcarbonyl)pyrrol-2-yl)methylene]-4-(piperidin-4-yl)-1,3-dihydroindol-2-one 388117-01-9P 388117-02-0P 388117-03-1P,
 3-(5-Methylthiophen-2-ylmethylene)-4-(piperidin-4-yl)-1,3-dihydroindol-2-one 388117-04-2P, 3-(4-Morpholin-4-ylbenzylidene)-4-(piperidin-4-yl)-1,3-dihydroindol-2-one 388117-05-3P 388117-06-4P
 388117-07-5P 388117-08-6P 388117-10-0P
 388117-12-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug; prepn. and use of 4-heteroaryl-3-heteroarylidenyl-2-indolinones and their use as protein kinase inhibitors)

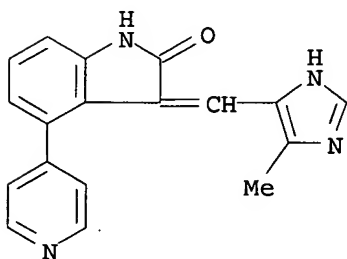
RN 388116-44-7 CAPLUS

CN Piperazine, 1-[[5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-2,4-dimethyl-1H-pyrrol-3-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)



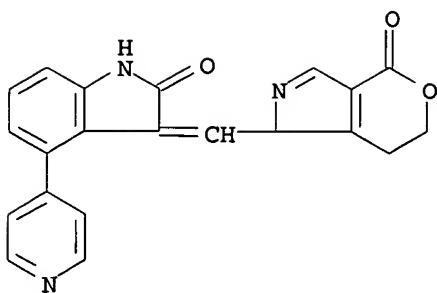
RN 388116-45-8 CAPLUS

CN 2H-Indol-2-one, 1,3-dihydro-3-[(5-methyl-1H-imidazol-4-yl)methylene]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME).

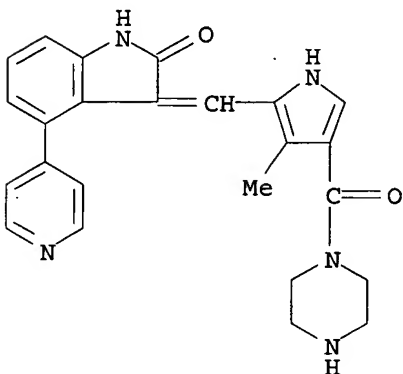


RN 388116-46-9 CAPLUS

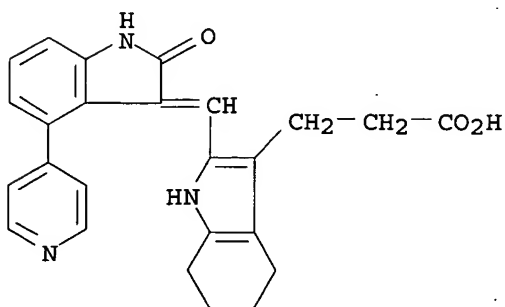
CN Pyrano[3,4-c]pyrrol-4(1H)-one, 1-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-6,7-dihydro- (9CI) (CA INDEX NAME)



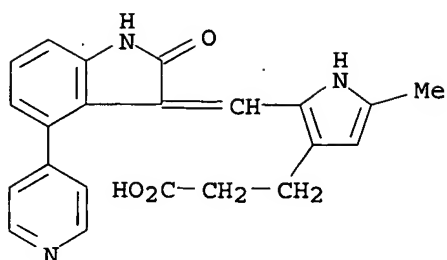
RN 388116-47-0 CAPLUS
CN Piperazine, 1-[[5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-4-methyl-1H-pyrrol-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



RN 388116-50-5 CAPLUS
CN 1H-Indole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-4,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)

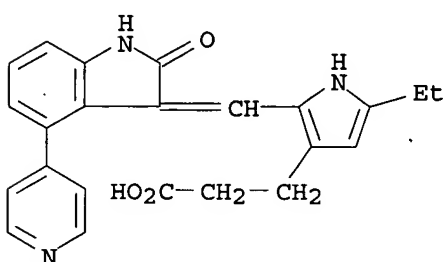


RN 388116-51-6 CAPLUS
CN 1H-Pyrrole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-5-methyl- (9CI) (CA INDEX NAME)



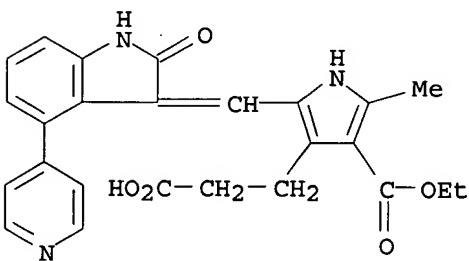
RN 388116-52-7 CAPLUS

CN 1H-Pyrrole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-5-ethyl- (9CI) (CA INDEX NAME)



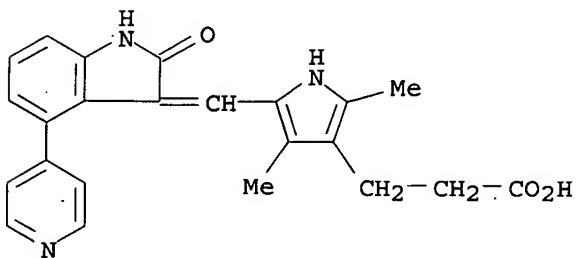
RN 388116-54-9 CAPLUS

CN 1H-Pyrrole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-4-(ethoxycarbonyl)-5-methyl- (9CI) (CA INDEX NAME)



RN 388116-55-0 CAPLUS

CN 1H-Pyrrole-3-propanoic acid, 5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)

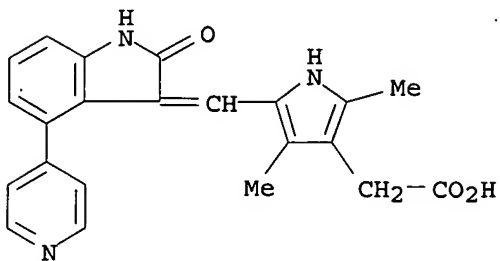


RN 388116-56-1 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-

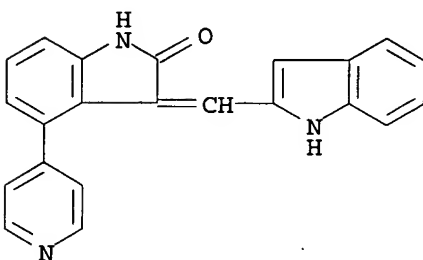
10/ 053,168

ylidene)methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)



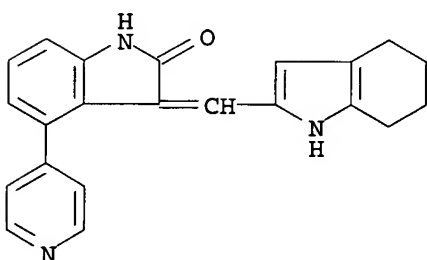
RN 388116-57-2 CAPLUS

CN 2H-Indol-2-one, 1,3-dihydro-3-(1H-indol-2-ylmethylene)-4-(4-pyridinyl)-
(9CI) (CA INDEX NAME)



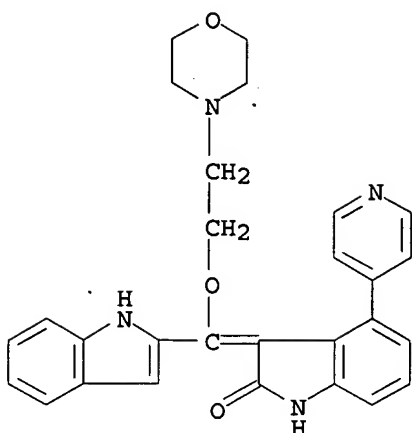
RN 388116-58-3 CAPLUS

CN 2H-Indol-2-one, 1,3-dihydro-4-(4-pyridinyl)-3-[(4,5,6,7-tetrahydro-1H-
indol-2-yl)methylene]- (9CI) (CA INDEX NAME)

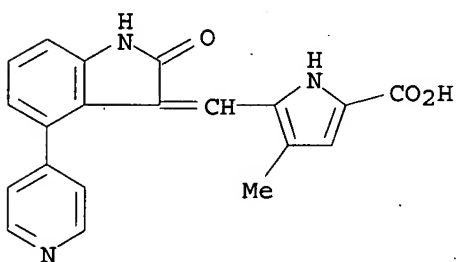


RN 388116-59-4 CAPLUS

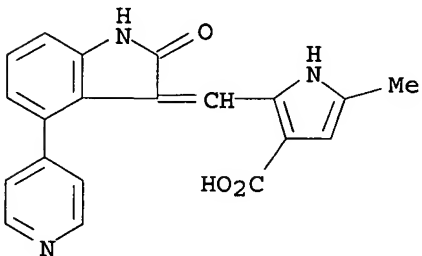
CN 2H-Indol-2-one, 1,3-dihydro-3-[1H-indol-2-yl[2-(4-
morpholinyl)ethoxy]methylene]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)



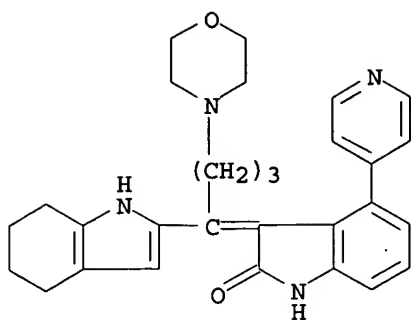
RN 388116-60-7 CAPLUS
 CN 1H-Pyrrole-2-carboxylic acid, 5-[[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 388116-61-8 CAPLUS
 CN 1H-Pyrrole-3-carboxylic acid, 2-[[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-5-methyl- (9CI) (CA INDEX NAME)

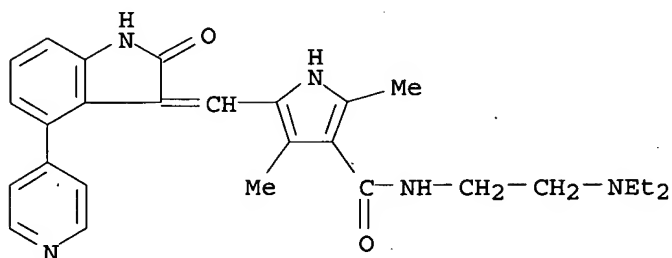


RN 388116-62-9 CAPLUS
 CN 2H-Indol-2-one, 1,3-dihydro-3-[4-(4-morpholinyl)-1-(4,5,6,7-tetrahydro-1H-indol-2-yl)butylidene]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)



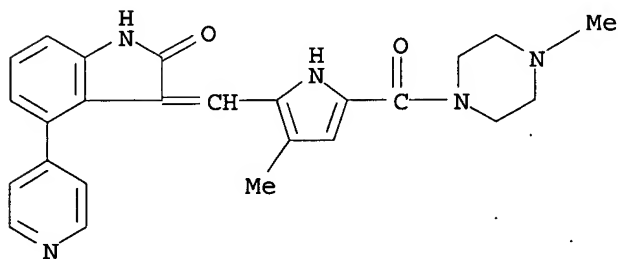
RN 388116-64-1 CAPLUS

CN 1H-Pyrrole-3-carboxamide, N-[2-(diethylamino)ethyl]-5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)



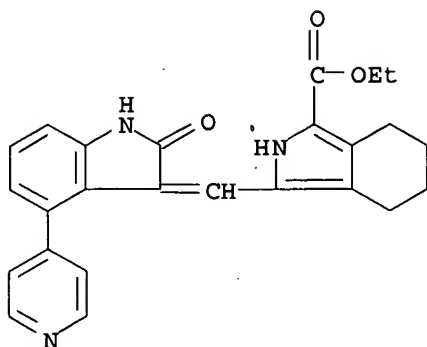
RN 388116-65-2 CAPLUS

CN Piperazine, 1-[[5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-4-methyl-1H-pyrrol-2-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)

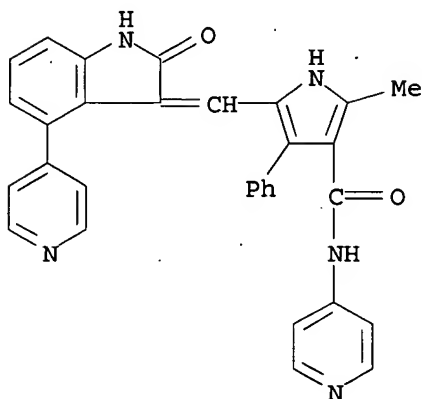


RN 388116-66-3 CAPLUS

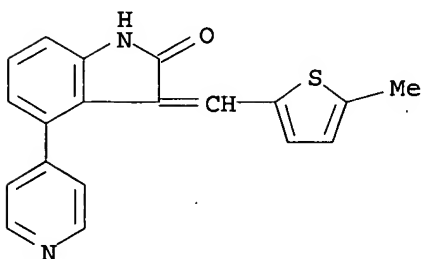
CN 2H-Isoindole-1-carboxylic acid, 3-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



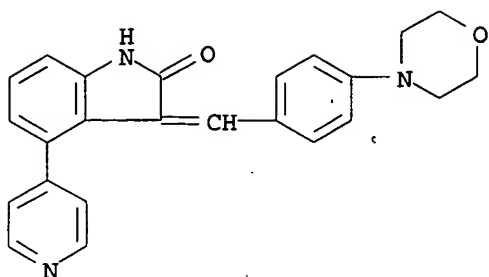
RN 388116-68-5 CAPLUS
CN 1H-Pyrrole-3-carboxamide, 5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-2-methyl-4-phenyl-N-4-pyridinyl- (9CI) (CA INDEX NAME)



RN 388116-70-9 CAPLUS
CN 2H-Indol-2-one, 1,3-dihydro-3-[(5-methyl-2-thienyl)methylene]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)

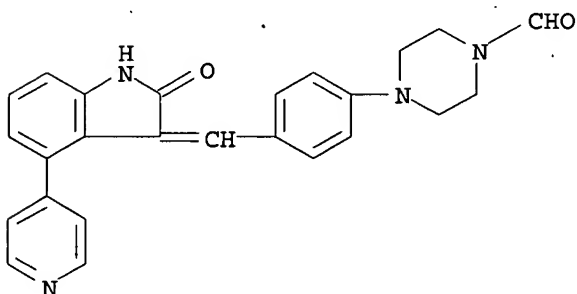


RN 388116-71-0 CAPLUS
CN 2H-Indol-2-one, 1,3-dihydro-3-[[4-(4-morpholinyl)phenyl]methylene]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)



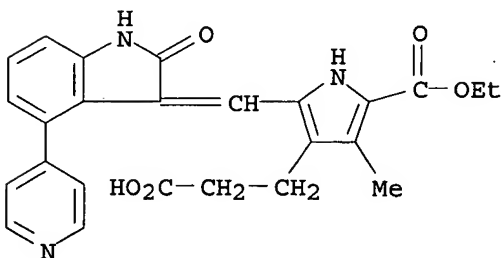
RN 388116-72-1 CAPLUS

CN 1-Piperazinecarboxaldehyde, 4-[4-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]phenyl]- (9CI) (CA INDEX NAME)



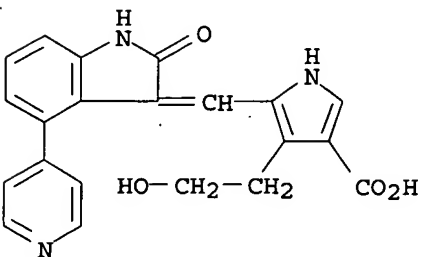
RN 388116-73-2 CAPLUS

CN 1H-Pyrrole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-5-(ethoxycarbonyl)-4-methyl- (9CI) (CA INDEX NAME)



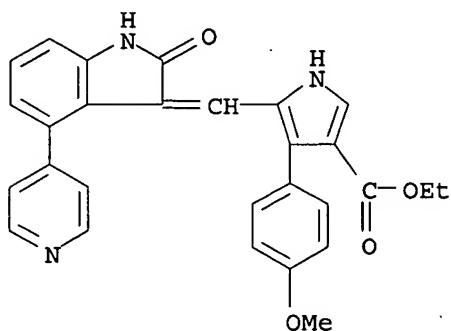
RN 388116-74-3 CAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-4-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



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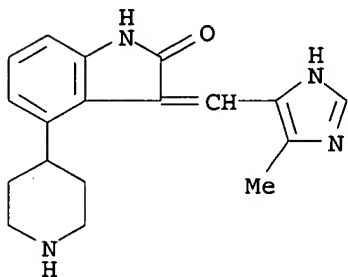
RN 388116-76-5 CAPLUS
CN 1H-Pyrrole-3-carboxylic acid, 5-[[1,2-dihydro-2-oxo-4-(4-pyridinyl)-3H-indol-3-ylidene]methyl]-4-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 388116-79-8 CAPLUS
CN 2H-Indol-2-one, 1,3-dihydro-3-[(5-methyl-1H-imidazol-4-yl)methylene]-4-(4-piperidinyl)-, monoacetate (9CI) (CA INDEX NAME)

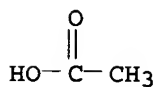
CM 1

CRN 388116-78-7
CMF C18 H20 N4 O

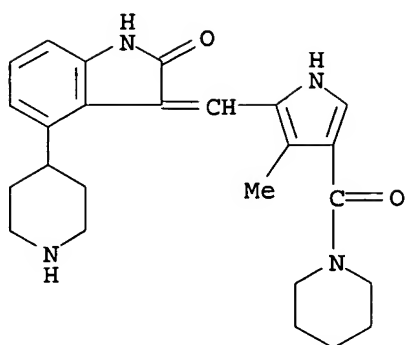


CM 2

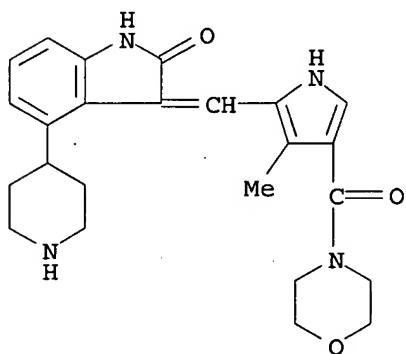
CRN 64-19-7
CMF C2 H4 O2



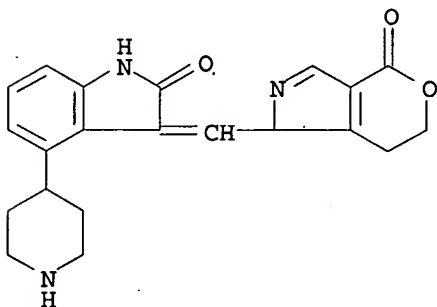
RN 388116-80-1 CAPLUS
CN Piperidine, 1-[[5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-methyl-1H-pyrrol-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



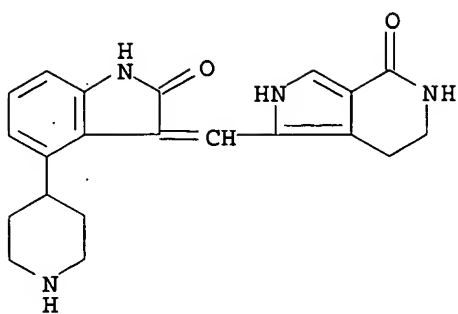
RN 388116-81-2 CAPLUS
CN Morpholine, 4-[[5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-methyl-1H-pyrrol-3-yl]carbonyl]- (9CI) (CA INDEX NAME)



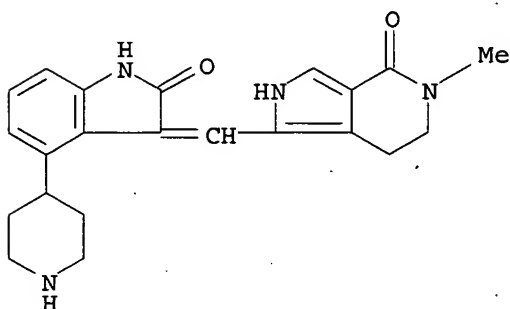
RN 388116-83-4 CAPLUS
CN Pyrano[3,4-c]pyrrol-4(1H)-one, 1-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-6,7-dihydro- (9CI) (CA INDEX NAME)



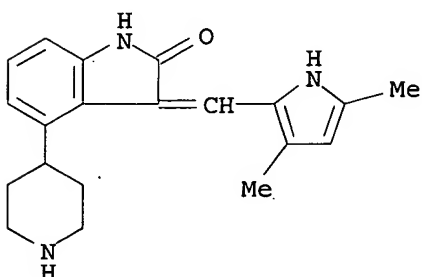
RN 388116-84-5 CAPLUS
CN 4H-Pyrrolo[3,4-c]pyridin-4-one, 1-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-2,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)



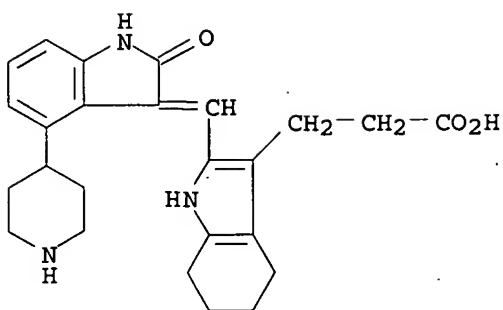
RN 388116-85-6 CAPLUS
 CN 4H-Pyrrolo[3,4-c]pyridin-4-one, 1-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-2,5,6,7-tetrahydro-5-methyl- (9CI) (CA INDEX NAME)



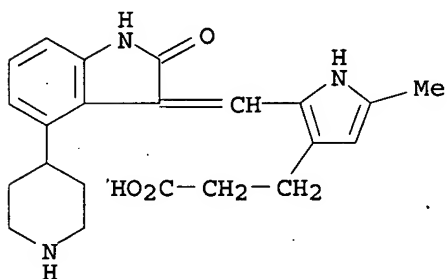
RN 388116-86-7 CAPLUS
 CN 2H-Indol-2-one, 3-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-1,3-dihydro-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



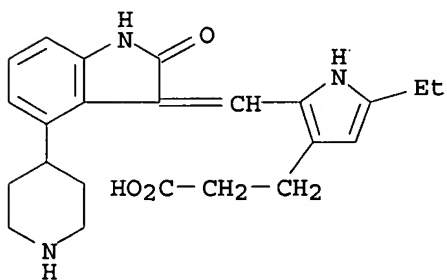
RN 388116-87-8 CAPLUS
 CN 1H-Indole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4,5,6,7-tetrahydro- (9CI) (CA INDEX NAME)



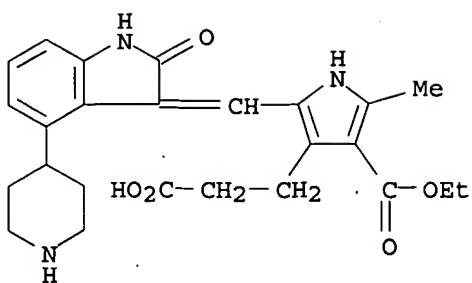
RN 388116-88-9 CAPLUS
 CN 1H-Pyrrole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-5-methyl- (9CI) (CA INDEX NAME)



RN 388116-89-0 CAPLUS
 CN 1H-Pyrrole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-5-ethyl- (9CI) (CA INDEX NAME)

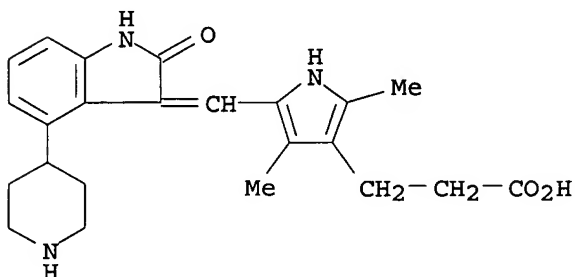


RN 388116-90-3 CAPLUS
 CN 1H-Pyrrole-3-propanoic acid, 2-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-(ethoxycarbonyl)-5-methyl- (9CI) (CA INDEX NAME)



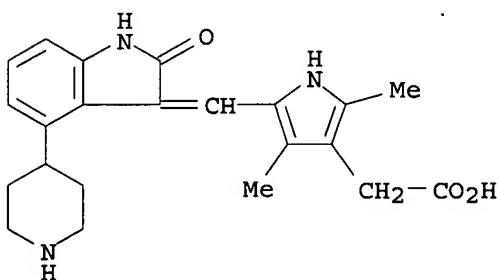
RN 388116-91-4 CAPLUS

CN 1H-Pyrrole-3-propanoic acid, 5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)



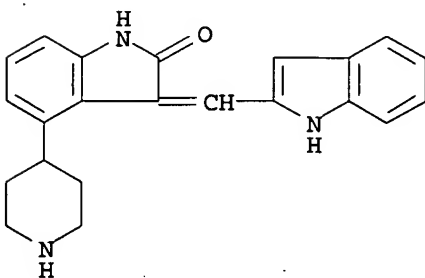
RN 388116-92-5 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)



RN 388116-93-6 CAPLUS

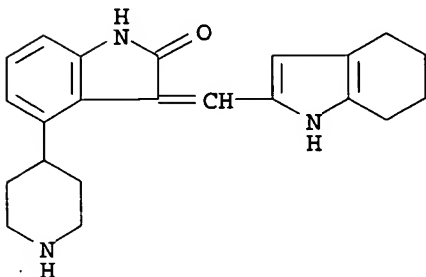
CN 2H-Indol-2-one, 1,3-dihydro-3-(1H-indol-2-ylmethylene)-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



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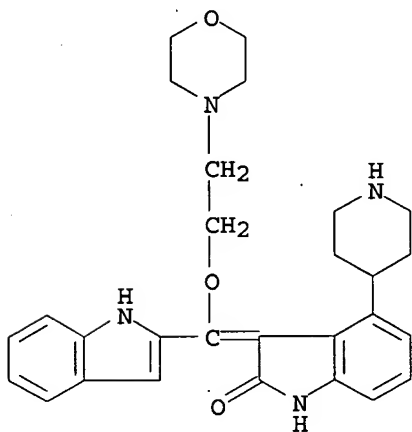
RN 388116-94-7 CAPLUS

CN 2H-Indol-2-one, 1,3-dihydro-4-(4-piperidinyl)-3-[(4,5,6,7-tetrahydro-1H-indol-2-yl)methylene]- (9CI) (CA INDEX NAME)



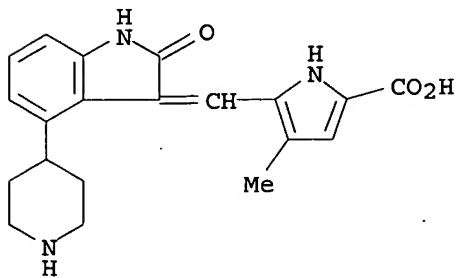
RN 388116-95-8 CAPLUS

CN 2H-Indol-2-one, 1,3-dihydro-3-[1H-indol-2-yl[2-(4-morpholinyl)ethoxy]methylene]-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



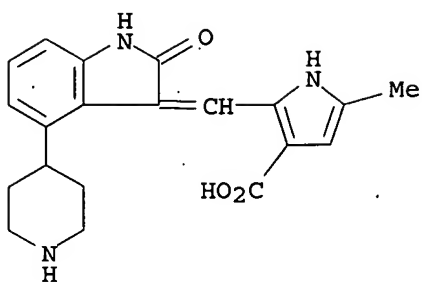
RN 388116-96-9 CAPLUS

CN 1H-Pyrrole-2-carboxylic acid, 5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-methyl- (9CI) (CA INDEX NAME)



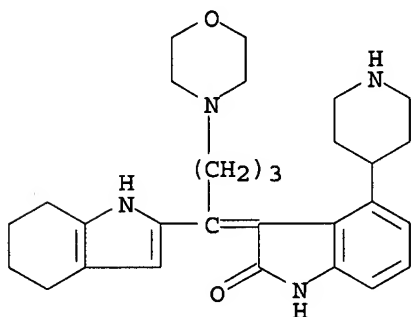
RN 388116-97-0 CAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 2-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-5-methyl- (9CI) (CA INDEX NAME)



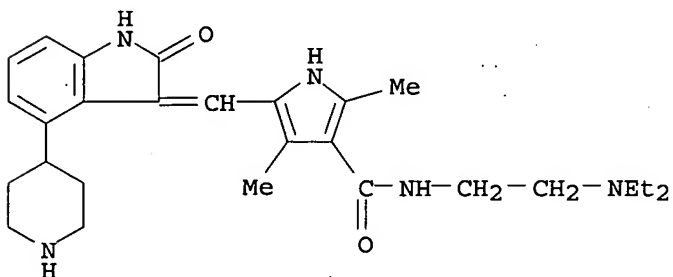
RN 388116-98-1 CAPLUS

CN 2H-Indol-2-one, 1,3-dihydro-3-[4-(4-morpholinyl)-1-(4,5,6,7-tetrahydro-1H-indol-2-yl)butylidene]-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



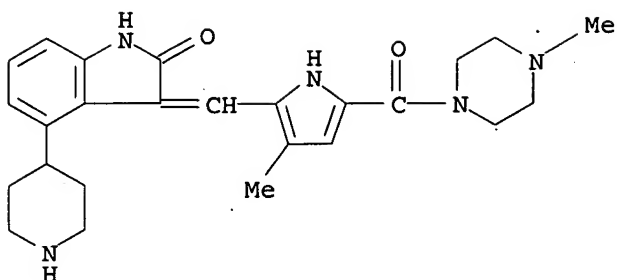
RN 388116-99-2 CAPLUS

CN 1H-Pyrrole-3-carboxamide, N-[2-(diethylamino)ethyl]-5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)

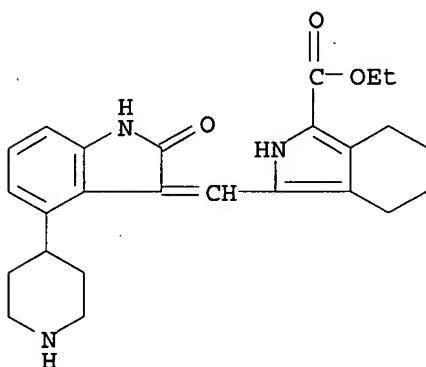


RN 388117-00-8 CAPLUS

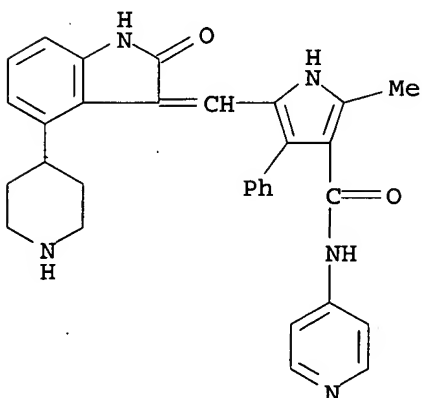
CN Piperazine, 1-[[5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-methyl-1H-pyrrol-2-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)



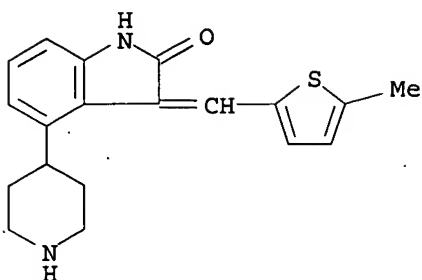
RN 388117-01-9 CAPLUS
 CN 2H-Isoindole-1-carboxylic acid, 3-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4,5,6,7-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



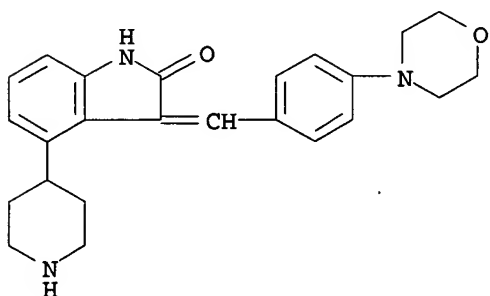
RN 388117-02-0 CAPLUS
 CN 1H-Pyrrole-3-carboxamide, 5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-2-methyl-4-phenyl-N-4-pyridinyl- (9CI) (CA INDEX NAME)



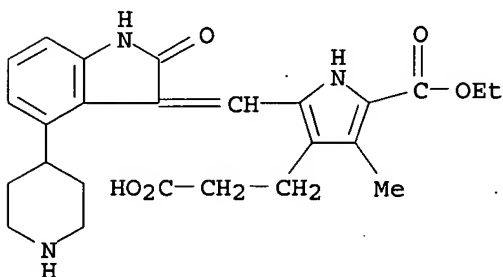
RN 388117-03-1 CAPLUS
 CN 2H-Indol-2-one, 1,3-dihydro-3-[(5-methyl-2-thienyl)methylene]-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



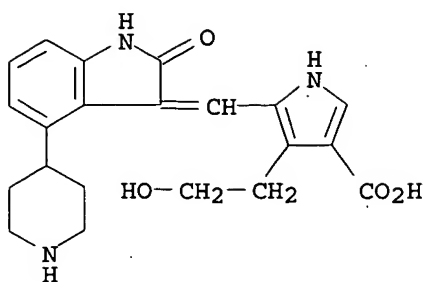
RN 388117-04-2 CAPLUS
 CN 2H-Indol-2-one, 1,3-dihydro-3-[[4-(4-morpholinyl)phenyl]methylene]-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 388117-05-3 CAPLUS
 CN 1H-Pyrrole-3-propanoic acid, 2-[[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-5-(ethoxycarbonyl)-4-methyl]- (9CI) (CA INDEX NAME)

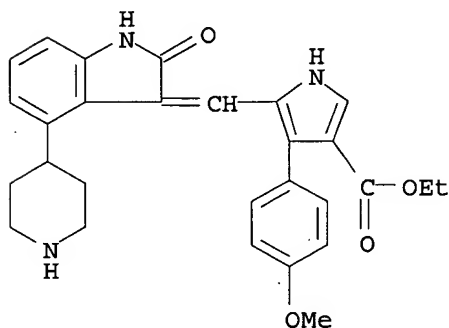


RN 388117-06-4 CAPLUS
 CN 1H-Pyrrole-3-carboxylic acid, 5-[[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



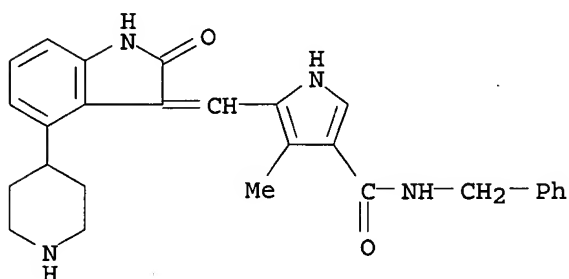
RN 388117-07-5 CAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



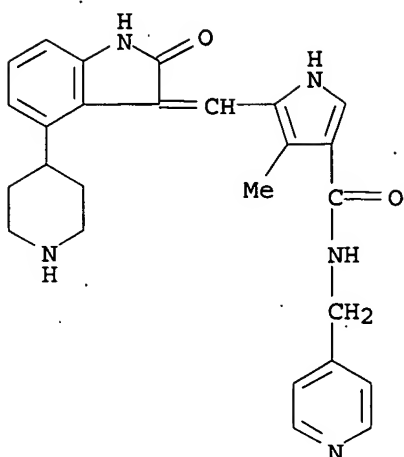
RN 388117-08-6 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-methyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

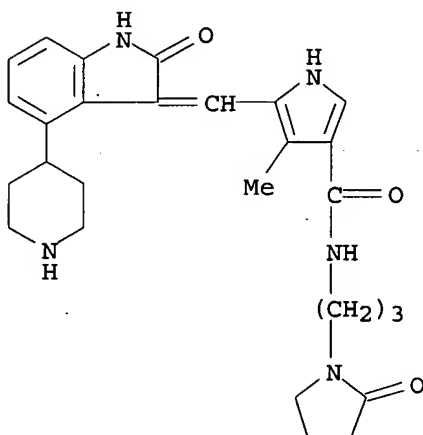


RN 388117-10-0 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 5-[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-methyl-N-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

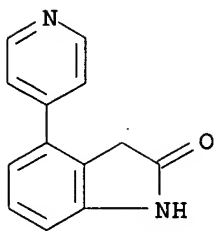


RN 388117-12-2 CAPLUS
 CN 1H-Pyrrole-3-carboxamide, 5-[[[1,2-dihydro-2-oxo-4-(4-piperidinyl)-3H-indol-3-ylidene]methyl]-4-methyl-N-[3-(2-oxo-1-pyrrolidinyl)propyl]- (9CI) (CA INDEX NAME)

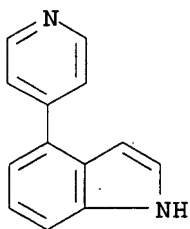


IT 388116-26-5P, 4-(Pyridin-4-yl)-1,3-dihydroindol-2-one
 388116-28-7P, 4-(Pyridin-4-yl)-1H-indole 388116-29-8P,
 4-(Piperidin-4-yl)-1,3-dihydroindol-2-one 388116-31-2P,
 4-(1-Methylpiperidin-4-yl)-1,3-dihydroindol-2-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (intermediate; prepn. and use of 4-heteroaryl-3-heteroarylidanyl-2-
 indolinones and their use as protein kinase inhibitors)
 RN 388116-26-5 CAPLUS
 CN 2H-Indol-2-one, 1,3-dihydro-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)

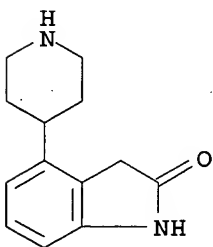
10/ 053,168



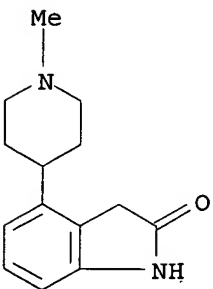
RN 388116-28-7 CAPLUS
CN 1H-Indole, 4-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 388116-29-8 CAPLUS
CN 2H-Indol-2-one, 1,3-dihydro-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 388116-31-2 CAPLUS
CN 2H-Indol-2-one, 1,3-dihydro-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



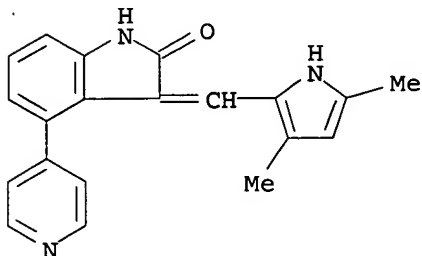
IT 388116-49-2P, 3-(3,5-Dimethyl-1H-pyrrol-2-ylmethylene)-4-(pyridin-4-yl)-1,3-dihydroindol-2-one
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and use of 4-heteroaryl-3-heteroarylidenyl-2-indolinones and

10/ 053,168

their use as protein kinase inhibitors)

RN 388116-49-2 CAPLUS

CN 2H-Indol-2-one, 3-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-1,3-dihydro-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)



IT 388116-30-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; prepn. and use of 4-heteroaryl-3-heteroarylidenyl-2-indolinones and their use as protein kinase inhibitors)

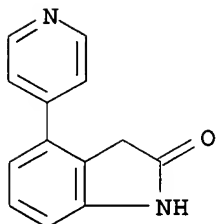
RN 388116-30-1 CAPLUS

CN 2H-Indol-2-one, 1,3-dihydro-4-(4-pyridinyl)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 388116-26-5

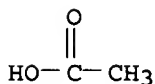
CMF C13 H10 N2 O



CM 2

CRN 64-19-7

CMF C2 H4 O2



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:10464 CAPLUS

DOCUMENT NUMBER: 136:85825

TITLE: Preparation of piperazinyl(or piperidinyl)-substituted indole derivatives for the treatment of CNS disorders

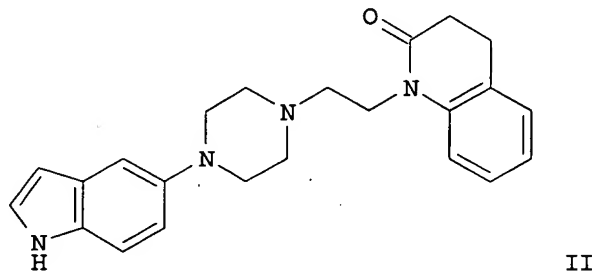
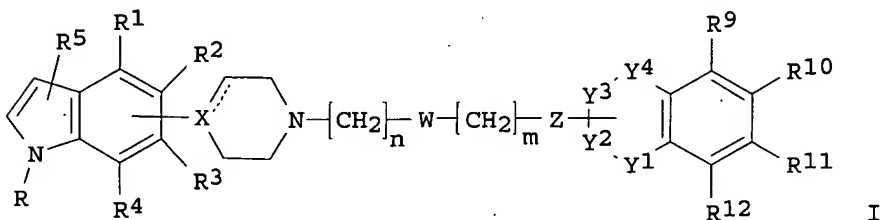
INVENTOR(S): Bang-Andersen, Benny; Felding, Jakob; Kehler, Jan

PATENT ASSIGNEE(S): H. Lundbeck A/S, Den.

10/ 053,168

SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002000645	A1	20020103	WO 2001-DK407	20010613
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1299380	A1	20030409	EP 2001-940241	20010613
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
NO 2002006029	A	20021216	NO 2002-6029	20021216
PRIORITY APPLN. INFO.: DK 2000-1018 A 20000629 WO 2001-DK407 W 20010613				
OTHER SOURCE(S): MARPAT 136:85825 GI				



AB The title compds. [I; Y1 = N, which is bound to Z, Z and Y2 = CH2, CO, CS, SO and SO2, Y3 = O, S, CHR7, Y4 = O, S, CHR8; or Y2 = N, which is bound to Z, Z and Y1 = CH2, CO, CS, SO and SO2, Y3 = CHR7, Y4 = O, S, CHR8; or Y2 = N, which is bound to Z, Z and Y3 = CH2, CO, CS, SO and SO2, Y1 = CHR6, Y4 = O, S, CHR8; W = a bond, O, S, CO, CS, SO, SO2; X = C, CH, N; n = 0-5; m = 0-5; n + m = 1-6; one of R1-R4 forms a bond to X and the others of R1-R4 and R5 and R9-R12 = H, halo, CN, etc.; R6-R8 = H, halo; R = H, alkyl,

acyl, etc.] and their pharmaceutically acceptable salts which are dopamine and serotonin receptor ligands, and therefore useful in the treatment of certain psychiatric and neurol. disorders, i. e. schizophrenia and other psychoses, anxiety disorders, depression, migraine, cognitive disorders, ADHD and sleep improvement, were prepd. and formulated. Thus, reacting 5-(piperazin-1-yl)-1H-indole with 1-(2-chloroethyl)-3,4-dihydroquinolin-2(1H)-one (preps. given) in the presence of LiBr, Et₃N and DMF in THF and butanone afforded II.oxalate which showed 90% inhibition of the binding of [3H]YM-09151-2 to human dopamine D_{4,2} receptors at 50 nM, and IC₅₀ of 29 nM against 5-HT_{2A} binding.

IT 385815-21-4P 385815-22-5P 385815-32-7P

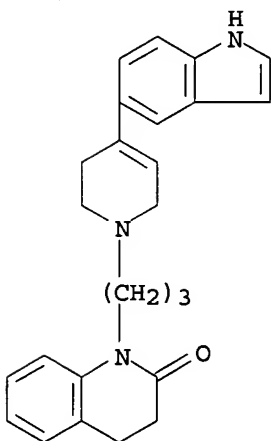
385815-33-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperazinyl(or piperidinyl)-substituted indole derivs. for the treatment of CNS disorders)

RN 385815-21-4 CAPLUS

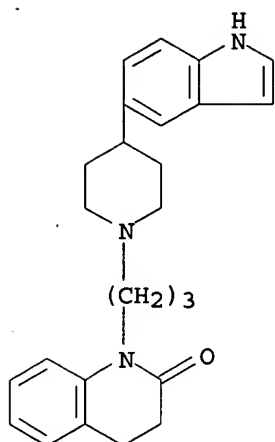
CN 2(1H)-Quinolinone, 1-[3-[3,6-dihydro-4-(1H-indol-5-yl)-1(2H)-pyridinyl]propyl]-3,4-dihydro-, hydrochloride (9CI) (CA INDEX NAME)



x HCl

RN 385815-22-5 CAPLUS

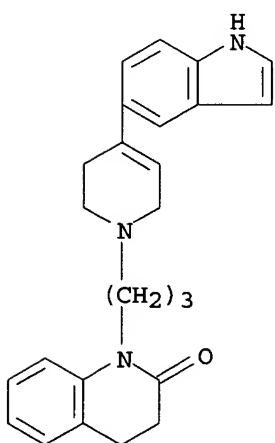
CN 2(1H)-Quinolinone, 3,4-dihydro-1-[3-[4-(1H-indol-5-yl)-1-piperidinyl]propyl]-, hydrochloride (9CI) (CA INDEX NAME)



x HCl

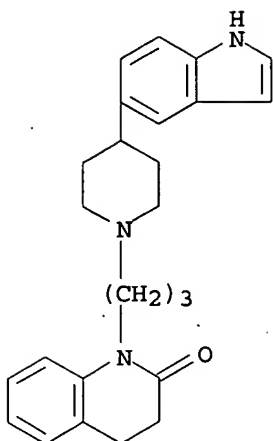
RN 385815-32-7 CAPLUS

CN 2(1H)-Quinolinone, 1-[3-[3,6-dihydro-4-(1H-indol-5-yl)-1(2H)-pyridinyl]propyl]-3,4-dihydro- (9CI) (CA INDEX NAME)

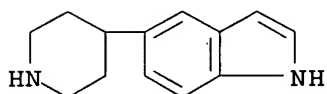


RN 385815-33-8 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-1-[3-[4-(1H-indol-5-yl)-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)



IT 383861-22-1P, 5-(Piperidin-4-yl)-1H-indole
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of piperazinyl(or piperidinyl)-substituted indole derivs. for
 the treatment of CNS disorders)
 RN 383861-22-1 CAPLUS
 CN 1H-Indole, 5-(4-piperidinyl)- (9CI) (CA INDEX NAME)

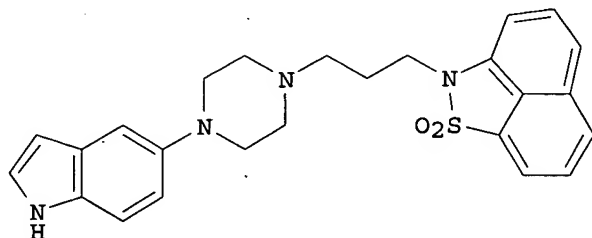
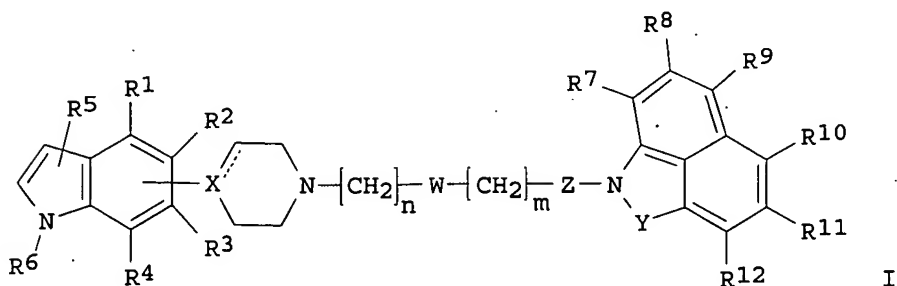


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:935601 CAPLUS
 DOCUMENT NUMBER: 136:69822
 TITLE: Preparation of indole derivatives for the treatment of
 CNS disorders
 INVENTOR(S): Bang-Andersen, Benny; Larsen, Krestian; Kehler, Jan
 PATENT ASSIGNEE(S): H. Lundbeck A/S, Den.
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001098298	A1	20011227	WO 2001-DK408	20010613
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 EP 1299384 A1 20030409 EP 2001-940242 20010613
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 NO 2002006028 A 20021216 NO 2002-6028 20021216
 PRIORITY APPLN. INFO.: DK 2000-957 A 20000619
 US 2000-212532P P 20000620
 WO 2001-DK408 W 20010613
 OTHER SOURCE(S): MARPAT 136:69822
 GI



AB The title compds. [I; Y = CO, CS, SO, SO₂, CH₂; Z = CO, CS, SO, SO₂, CH₂ (provided that only one of Y and Z = CO, CS, SO, SO₂); W = a bond, O, S, CO, CS, SO, SO₂; n = 0-5; m = 0-5 (n + m = 1-6); X = N, CH, C; R₁-R₅, R₇-R₁₂ = H, halo, CN, etc.; R₆ = H, alkyl, alkenyl, etc.] which are dopamine and serotonin receptor ligands, and therefore are useful in the treatment of certain psychiatric and neurol. disorders, i. e. schizophrenia and other psychoses, anxiety disorders, depression, migraine, cognitive disorders, attention deficit hyperactivity disorder (ADHD) and sleep improvement, were prepd. and formulated. Thus, reacting 5-(piperazin-1-yl)-1H-indole with 2-(3-bromopropan-1-yl)-2H-naphtho[1,8-cd]isothiazole 1,1-dioxide (prepn. given) in DMF and butanone afforded II.HCl which showed IC₅₀ of 1.9 nM and 0.79 nM against D₄ binding and 5-HT_{2A} binding, resp.

IT 383861-14-1P 383861-15-2P 383861-17-4P
 383861-18-5P

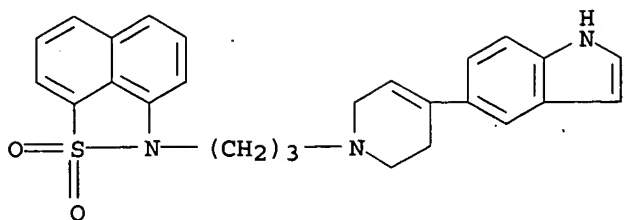
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of indole derivs. for the treatment of CNS disorders)

RN 383861-14-1 CAPLUS

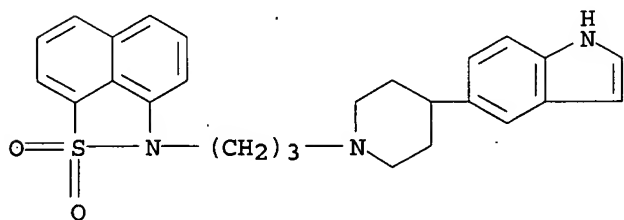
CN 2H-Naphth[1,8-cd]isothiazole, 2-[3-[3,6-dihydro-4-(1H-indol-5-yl)-1(2H)-pyridinyl]propyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)

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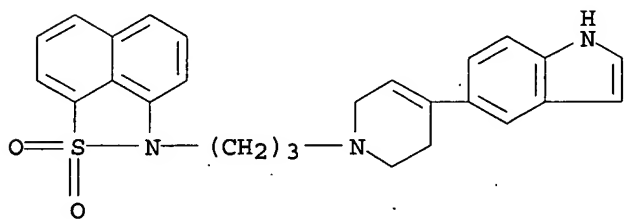
● HCl

RN 383861-15-2 CAPLUS
CN 2H-Naphth[1,8-cd]isothiazole, 2-[3-[4-(1H-indol-5-yl)-1-piperidinyl]propyl]-, 1,1-dioxide, monohydrochloride (9CI) (CA INDEX NAME)

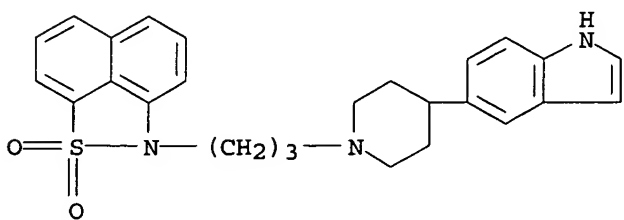


● HCl

RN 383861-17-4 CAPLUS
CN 2H-Naphth[1,8-cd]isothiazole, 2-[3-[3,6-dihydro-4-(1H-indol-5-yl)-1(2H)-pyridinyl]propyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 383861-18-5 CAPLUS
CN 2H-Naphth[1,8-cd]isothiazole, 2-[3-[4-(1H-indol-5-yl)-1-piperidinyl]propyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



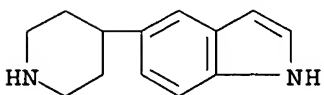
10/ 053,168

IT 383861-22-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. of indole derivs. for the treatment of CNS disorders)

RN 383861-22-1 CAPLUS

CN 1H-Indole, 5-(4-piperidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:833276 CAPLUS

DOCUMENT NUMBER: 135:371989

TITLE: Preparation of novel multicyclic compounds and their
amino acid derivatives as inhibitors of enzymes such
as poly(ADP-ribose) polymerase

INVENTOR(S): Ator, Mark A.; Bihovsky, Ron; Chatterjee, Sankar;
Dunn, Derek; Hudkins, Robert L.

PATENT ASSIGNEE(S): Cephalon, Inc., USA

SOURCE: PCT Int. Appl., 209 pp.

CODEN: PIXXD2

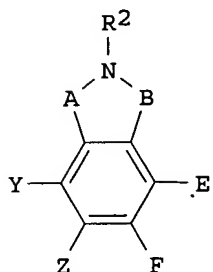
DOCUMENT TYPE: Patent

LANGUAGE: English

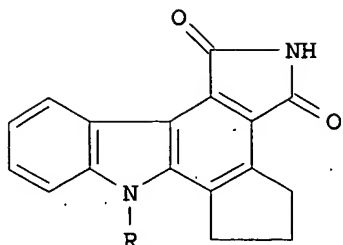
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085686	A2	20011115	WO 2001-US14996	20010509
WO 2001085686	A3	20020530		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 2002028815	A1	20020307	US 2001-850858	20010508
EP 1294725	A2	20030326	EP 2001-935215	20010509
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
NO 2002005376	A	20030108	NO 2002-5376	20021108
PRIORITY APPLN. INFO.:			US 2000-202947P	P 20000509
			US 2001-850858	A 20010508
			WO 2001-US14996	W 20010509
OTHER SOURCE(S):	MARPAT 135:371989			
GI				



I



II

AB The title compds. such as penta[a]pyrrolo[3,4-c]carbazole, hexano[a]pyrrolo[3,4-c]carbazole, pyrrolo[3,4-c]carbazole, and furano[a-3,2]pyrrolo[3,4-c]carbazole derivs. [I; A, B = CO, CH(OR₃), CH(SR₃), CH₂, CHR₃, CHR₃CHR₄, CR₃R₄, COR₃, N:CR₃, SO, SO₂ (wherein R₃, R₄ = H, optionally substituted lower alkyl or aryl); Y and Z, together with the carbon to which they are attached, form an (un)substituted mono- or bicyclic aryl or bicyclic heteroaryl, or C3-5 heteroaryl; E, F = lower alkyl or E and F, together with the carbon to which they are attached, form an (un)substituted C4-7 cycloalkyl, C3-6 heterocycloalkyl or heteroaryl, or an (un)substituted heterocycloalkyl endocyclically comprising at least one group G (wherein G = O, S, SO, SO₂, NR₂, NR₂CO, NR₂CONR₃, NR₂SO₂, NR₃SO₂; R₂ = H, optionally substituted lower alkyl or alkanoyl, CHO, acetyl, lower alkylsulfonyl, arylsulfonyl, an optionally protected amino acid)] are prepd. These compds. are effective in the treatment of diseases or disease states related to the activity of enzymes such as poly(ADP-ribose) polymerase (PARP), vascular endothelial growth factor receptor kinase (VEGFR2 kinase), and MLK3 kinase (a member of the mixed lineage kinase family), including, for example, traumatic central nervous system injuries, neurodegenerative diseases (in particular Parkinson's, Huntington's, or Alzheimer's disease), inflammation, cerebral or cardiac ischemia, endotoxic shock, diabetes, or cellular proliferative disorders (in particular cancer, solid tumors, diabetic retinopathy, intraocular neovascular syndromes, macular degeneration, rheumatoid arthritis, psoriasis, or endometriosis). They also suppress the formation of blood vessels (angiogenesis) and prevent neuronal degrdn. assocd. with traumatic central nervous system injuries. Thus, 2H-1,3,4,5,6,7-hexahydrocyclopenta[a]pyrrolo[3,4-c]carbazole-1,3-dione (II; R = H) (prepn. given) was treated with NaH in DMF at room temp. for 30 min and condensed with a stirred mixt. of Boc-Lys(Boc)-OH dicyclohexylamine salt, TBTU, N-Methylmorpholine, and DMF at room temp. for 1 h, followed by treatment of the product with 4 N HCl in dioxane to give II (R = H-Lys). II (R = H-Lys) showed IC₅₀ of .mu.g/mL against of 22 nM against PARP.

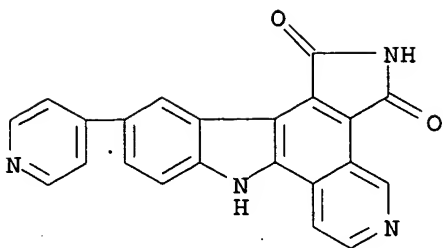
IT 374071-32-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of novel multicyclic compds. and their amino acid derivs. as inhibitors of enzymes for treatment of diseases related to enzymes such as poly(ADP-ribose) polymerase, VEGFR2 kinase, and MLK3 kinase)

RN 374071-32-6 CAPLUS

CN Pyrido[4,3-a]pyrrolo[3,4-c]carbazole-1,3(2H,8H)-dione, 11-(4-pyridinyl)-(9CI) (CA INDEX NAME)



L3 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:817246 CAPLUS

DOCUMENT NUMBER: 135:357843

TITLE: Preparation of 2-Aryl indole derivatives for use as tachykinin receptor antagonists

INVENTOR(S): Dinnell, Kevin; Elliott, Jason Matthew; Hollingworth, Gregory John; Ridgill, Mark Peter; Shaw, Duncan Edward

PATENT ASSIGNEE(S): UK

SOURCE: U.S. Pat. Appl. Publ., 37 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

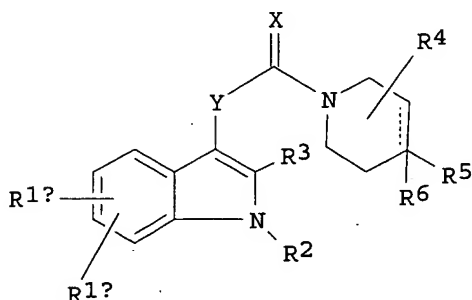
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2001039286	A1	20011108	US 2001-782422	20010213
PRIORITY APPLN. INFO.:			GB 2000-3397	A 20000214
OTHER SOURCE(S):		MARPAT 135:357843		

GI



I

AB 2-Aryl indole derivs. I (wherein R1a, R1b, and R2 = a variety of substituents; R3 = optionally substituted Ph, biphenyl or naphthyl or heteroaryl group; R4 = H, (C1-6)alkyl, carbonyl (=O), (CH2)pphenyl or a (C1-2)alkylene bridge across the piperidine ring; R5 and R6 = variety of substituents; or R5 and R6 together are linked so as to form an optionally substituted 5-or 6-membered ring; X = O or S, two H atoms, boxHNH or boxHN(C1-6 alkyl); Y = straight or branched (C1-4)alkylene, (C2-4)alkenylene or (C2-4)alkynylene chain; the dotted line represents an optional double bond; m = 0,1,2,3,4; n = 1,2,3,4; and p = 1,2,3,4), or a pharmaceutically acceptable salt thereof, were prepd., and their use as tachykinin receptor antagonists evaluated. Thus, diisopropylethylamine and bromoacetonitrile were added to a loaded resin (synthetic prepn. given) in N-methylpyrrolidinone, to which was added a soln. of

6-(methylsulfonyl)spiro-[2H-1-benzopyran-2,4'-piperidin]-4(3H)-one in THF to give 1'-{3-[5-chloro-2-(4-chlorophenyl)-1H-indol-3-yl]-1-oxopropyl}-6-(methylsulfonyl)spiro(2H-1-benzopyran-2,4'-piperidin)-4(3H)-one. The compds. are of particular use in the treatment or prevention of depression, anxiety, pain, inflammation, migraine, emesis or postherpetic neuralgia. Biol. data are given.

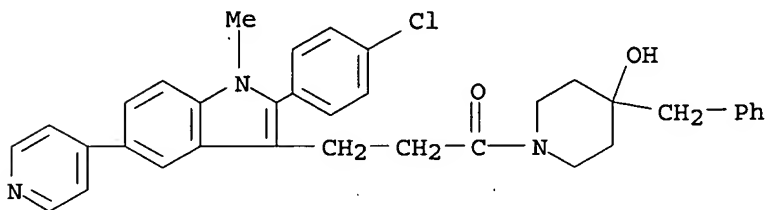
IT 371970-19-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of aryl indole derivs. as tachykinin receptor antagonists for treatment for)

RN 371970-19-3 CAPLUS

CN 4-Piperidinol, 1-[3-[2-(4-chlorophenyl)-1-methyl-5-(4-pyridinyl)-1H-indol-3-yl]-1-oxopropyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



L3 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:730745 CAPLUS

DOCUMENT NUMBER: 135:288799

TITLE: Preparation of 2,3,4,5-tetrahydro-1H-[1,4]diazepino[1,7-a]indoles as 5-HT receptor antagonists for treatment of CNS disorders

INVENTOR(S): Ennis, Michael Dalton; Hoffman, Robert Louis; Ghazal, Nabil B.; Olson, Rebecca M.

PATENT ASSIGNEE(S): Pharmacia + Upjohn Company, USA

SOURCE: PCT Int. Appl., 331 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072752	A2	20011004	WO 2001-US4950	20010308
WO 2001072752	A3	20030417		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

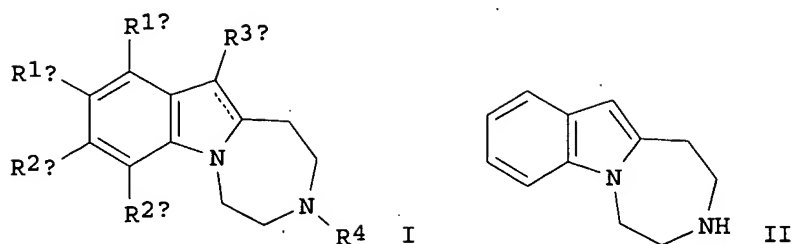
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002002161 A1 20020103 US 2001-803242 20010308

PRIORITY APPLN. INFO.: US 2000-189103P P 20000314

OTHER SOURCE(S): MARPAT 135:288799

GI



AB Title compds. I [wherein R1a, R1b, R2a, and R2b = independently (a) H, halo, CN, CF₃, OCF₃, OR₅, CONR₅R₆, COR₅, CO₂R₅, Y(CH₂)_mXR₅, YCO(CH₂)_mXR₅; m = 0-3; Y = CH₂, S, O, or NR₆; X = CH₂, S, O, NR₆; (b) (CH₂)_pAr; p = 0-3; Ar = (un)substituted (hetero)aryl or (c) (un)substituted (cyclo)alkyl, (cyclo)alkenyl, or (cyclo)alkynyl; R₃ = (a) H, halo, CN, CF₃, OCF₃, alkyl, Ar, OR₅, SR₅, CHO, CONR₅R₆, COR₅, CO₂R₅, Yo(CH₂)_nXR₅, COCONXR₅, Yo(CH₂)_nN(R₆)CONR₅R₆; o = 0 or 1; n = 0-3; X = CH, S, O, or NR₆; Y = CH, S, O or NR₆; Ar = (un)substituted (hetero)aryl; (b) (un)substituted (cyclo)alkyl, (cyclo)alkenyl, or (cyclo)alkynyl; R₄, R₅, and R₆ = independently (a) H or (un)substituted (cyclo)alkyl, (cyclo)alkenyl, or (cyclo)alkynyl; (b) (CH₂)_pAr; p = 0-3; Ar = (un)substituted (hetero)aryl; or stereoisomers or pharmaceutically acceptable salts thereof] were prepd. For example, 2,3,4,5-tetrahydro-1H-[1,4]diazepino[1,7-a]indole.bul.HCl (II.bul.HCl) was prepd. in a multi-step synthesis starting from Et H malonate and 2-nitrophenylacetic acid and involving the cyclization of the Et [1-(2-bromoethyl)-2,3-dihydro-1H-indol-2-yl]acetate intermediate to the tetrahydro-1H-[1,4]diazepino[1,7]indol-2(3H)-one. I are useful as 5-HT receptor antagonists for the treatment of a variety of central nervous system disorders (no data).

IT 364347-16-0P 364348-26-5P 364349-42-8P

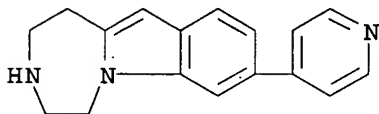
364350-49-2P 364351-57-5P 364352-67-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 1H-[1,4]diazepino[1,7-a]indoles as 5-HT receptor inhibitors for treatment of CNS disorders)

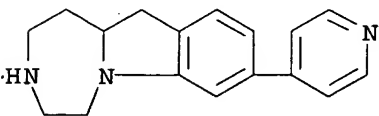
RN 364347-16-0 CAPLUS

CN 1H-[1,4]Diazepino[1,7-a]indole, 2,3,4,5-tetrahydro-8-(4-pyridinyl)- (9CI)
(CA INDEX NAME)



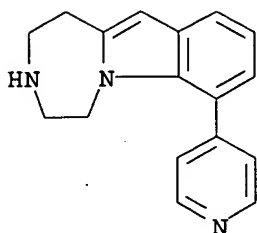
RN 364348-26-5 CAPLUS

CN 1H-[1,4]Diazepino[1,7-a]indole, 2,3,4,5,11,11a-hexahydro-8-(4-pyridinyl)- (9CI)
(CA INDEX NAME)

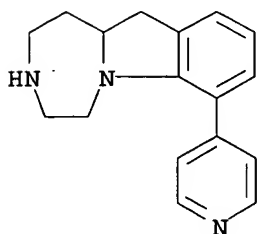


RN 364349-42-8 CAPLUS

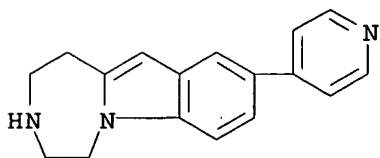
CN 1H-[1,4]Diazepino[1,7-a]indole, 2,3,4,5-tetrahydro-7-(4-pyridinyl)- (9CI)
(CA INDEX NAME)



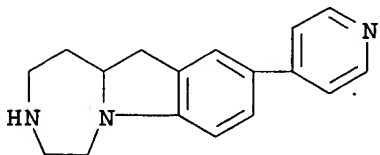
RN 364350-49-2 CAPLUS
 CN 1H-[1,4]Diazepino[1,7-a]indole, 2,3,4,5,11,11a-hexahydro-7-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 364351-57-5 CAPLUS
 CN 1H-[1,4]Diazepino[1,7-a]indole, 2,3,4,5-tetrahydro-9-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 364352-67-0 CAPLUS
 CN 1H-[1,4]Diazepino[1,7-a]indole, 2,3,4,5,11,11a-hexahydro-9-(4-pyridinyl)- (9CI) (CA INDEX NAME)



L3 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:709746 CAPLUS

DOCUMENT NUMBER: 135:257261

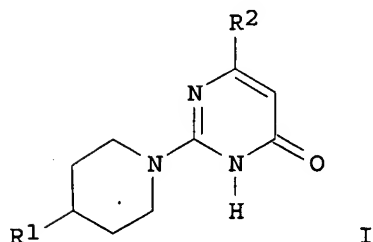
TITLE: Preparation of 2-(piperidin-1-yl)pyrimidones for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3.beta.

INVENTOR(S): Almario-Garcia, Antonio; Frost, Jonathan Reid; Li-Tak, Adrien

PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.; Mitsubishi-Tokyo
 Pharmaceuticals, Inc.
 SOURCE: Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1136489	A1	20010926	EP 2000-400802	20000323
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
WO 2001070728	A1	20010927	WO 2001-EP3639	20010322
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			EP 2000-400801	A 20000323
			EP 2000-400802	A 20000323
			EP 2000-400803	A 20000323

OTHER SOURCE(S): MARPAT 135:257261
 GI



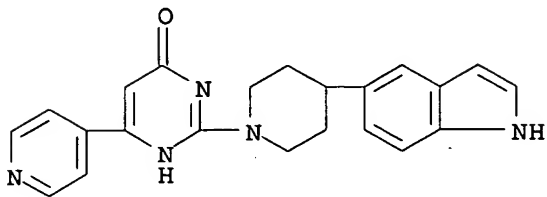
AB The title compds. [I; R1 = (un)substituted aryl, heterocyclic ring having 1-4 hetero atoms selected from O, S, and N atoms, (un)substituted alkyl; R2 = pyridyl optionally substituted by alkyl, alkoxy or halo] and their salts, useful for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3.beta., such as Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration, Pick's disease, cerebrovascular accidents, brain and spinal trauma, and peripheral neuropathy, were prepd. and formulated. E.g., a 3-step synthesis of I [R1 = Ph; R2 = 4-pyridyl] was given. All exemplified compds. I showed IC50's of 0.5-10 .mu.M against GSK3.beta..

IT 362467-54-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 2-(piperidin-1-yl)pyrimidones for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3.beta.)

10/ 053,168

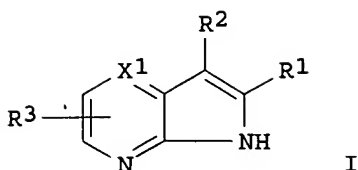
RN 362467-54-7 CAPLUS
CN 4(1H)-Pyrimidinone, 2-[4-(1H-indol-5-yl)-1-piperidinyl]-6-(4-pyridinyl)-
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:489395 CAPLUS
DOCUMENT NUMBER: 135:92651
TITLE: Preparation of azaindoles as protein kinase inhibitors
INVENTOR(S): Cox, Paul Joseph; Majid, Tahir Nadeem; Lai, Justine
Yeun Quai; Morley, Andrew David; Amendola, Shelley;
Deprets, Stephanie; Edlin, Chris
PATENT ASSIGNEE(S): Aventis Pharma Ltd., UK
SOURCE: PCT Int. Appl., 270 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001047922	A2	20010705	WO 2000-GB4993	20001227
WO 2001047922	A3	20020117		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1263759	A2	20021211	EP 2000-985695	20001227
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2000017038	A	20030107	BR 2000-17038	20001227
BG 106836	A	20030430	BG 2002-106836	20020618
NO 2002003032	A	20020621	NO 2002-3032	20020621
PRIORITY APPLN. INFO.:			GB 1999-30698	A 19991224
			US 2000-215818P	P 20000705
			WO 2000-GB4993	W 20001227
OTHER SOURCE(S):	MARPAT 135:92651			
GI				



AB The invention is directed to compns. contg. physiol. active compds. of general formula [I; wherein R1 is (un)substituted aryl or heteroaryl; R2 represents hydrogen, acyl, cyano, halo, lower alkenyl or lower alkyl optionally substituted by a substituent selected from cyano, heteroaryl, heterocycloalkyl, -Z1R8, -CONY3Y4, -CO2R8, -NY3Y4, -N(R6)COR7, -N(R6)CONY3Y4, -N(R6)CO2R7, -N(R6)SO2R7, -N(R6)SO2NY3Y4 and one or more halogen atoms; R3 represents hydrogen, aryl, cyano, halo, heteroaryl, lower alkyl, -CO2R5 or -CONY3Y4; and X1 represents N, CH, C-halo, C-CN, C-R7, C-NY3Y4, C-OH, C-Z2R7, C-CO2R5, C-CONY3Y4, C-N(R8)COR7, C-SO2NY3Y4, C-N(R8)SO2R7, C-alkenyl, C-alkynyl or C-NO2; wherein R5 represents hydrogen, alkyl, alkenyl, aryl, arylalkyl, heteroaryl or heteroarylalkyl; R6 represents hydrogen or lower alkyl; R7 represents alkyl, aryl, arylalkyl, cycloalkyl, cycloalkylalkyl, heteroaryl, heteroarylalkyl, heterocycloalkyl or heterocycloalkylalkyl; R8 represents hydrogen or lower alkyl; represents; Y3 and Y4 are independently hydrogen, alkenyl, alkyl, aryl, arylalkyl, cycloalkyl, heteroaryl or heteroarylalkyl; or the group -NY3Y4 may form a cyclic amine; Z1 represents O or S; Z2 represents O or S(O)n; n is zero or an integer 1 or 2] and their prodrugs, and pharmaceutically acceptable salts and solvates of such compds. and their prodrugs. These compds. have valuable pharmaceutical properties, in particular the ability to inhibit protein kinases, esp. Syk kinase, and are useful for the treatment of asthma, psoriasis, joint inflammation, and inflammatory bowel disease. Thus, a stirred soln. of diisopropylamine (59.9 mL) in THF (1,400 mL), at -15 .degree.C and under nitrogen, was treated with a soln. of n-butyllithium in hexanes (131 mL, 1.6 M) over 25 min at <-10.degree.. After stirring for 30 min the mixt. was treated with methylpyrazine (26.8 g) over 15 min, then stirred for 1 h and then treated with a soln. of 5-methoxy-1-methyl-1H-indole-3-carbonitrile (53 g) in THF (600 mL) over 1 h at <-10.degree., and the reaction mixt. was allowed to warm to room temp. over 2 h and then stood overnight to give, after workup and flash chromatog., 6-(5-Methoxy-1-methyl-1H-indol-3-yl)-5H-pyrrolo[2,3-b]pyrazine (19.4 g) as a gray solid. I showed IC50 of 10-100 nM against Syk kinase.

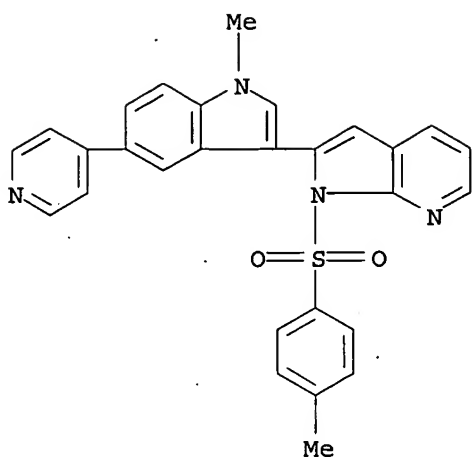
IT 348639-46-3P 348640-91-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of azaindoles as protein kinase inhibitors)

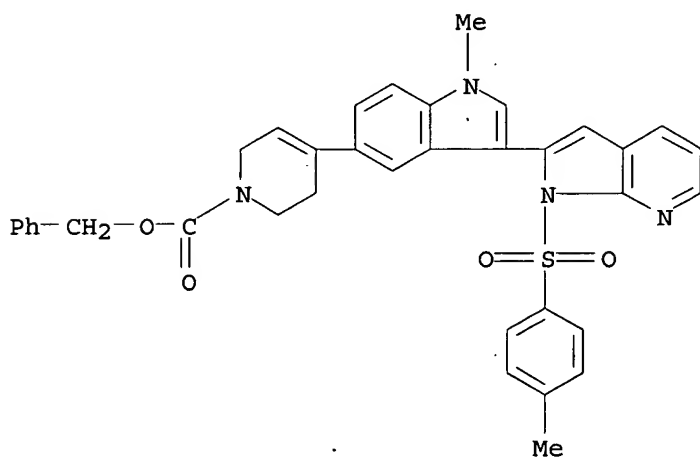
RN 348639-46-3 CAPLUS

CN 1H-Pyrrolo[2,3-b]pyridine, 1-[(4-methylphenyl)sulfonyl]-2-[1-methyl-5-(4-pyridinyl)-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



RN 348640-91-5 CAPLUS

CN 1(2H)-Pyridinecarboxylic acid, 3,6-dihydro-4-[1-methyl-3-[1-[(4-methylphenyl)sulfonyl]-1H-pyrrolo[2,3-b]pyridin-2-yl]-1H-indol-5-yl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

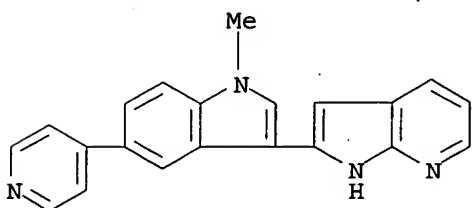


IT 348639-47-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of azaindoles as protein kinase inhibitors)

RN 348639-47-4 CAPLUS

CN 1H-Pyrrolo[2,3-b]pyridine, 2-[1-methyl-5-(4-pyridinyl)-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



L3 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:453066 CAPLUS

DOCUMENT NUMBER: 135:61239

TITLE: Preparation of 11H,12H,14H-pyrrolo[3,4-c]quinolino[8',8a',1':3,2,1]-pyrrolo[2,3-a]carbazole-5,7-diones for the treatment of proliferative diseases

INVENTOR(S): Al-Awar, Rima Salim; Hecker, Kyle Andrew; Huang, Jianping; Joseph, Sajjan; Li, Tiechao; Paal, Michael; Rathnachalam, Radhakrishnan; Ray, James Edward; Shih, Chuan; Waid, Philip Parker; Zhou, Xun; Zhu, Guoxin

PATENT ASSIGNEE(S): Eli Lilly and Company, USA

SOURCE: PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044247	A2	20010621	WO 2000-US33273	20001218
WO 2001044247	A3	20020103		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1242420	A2	20020925	EP 2000-984043	20001218
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRIORITY APPLN. INFO.:
 US 1999-171087P P 19991216
 US 1999-171220P P 19991216
 WO 2000-US33273 W 20001218

OTHER SOURCE(S): CASREACT 135:61239; MARPAT 135:61239

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; A, B = O, S; X, Y = H; or X and Y, taken together, form a bond; R1 = H, alkyl; R2 = halo, CN, alkyl, etc.; R3 = aryl, heteroaryl, etc.; R4 = H, alkyl, etc.; R5 = halo, CN, alkyl, etc.; R6 = alkyl; R7 = alkoxycarbonyl, (CH₂)_mZ (m = 0-5; Z = halo, OH, etc.); Q1 = O, SOn (n = 0-2), (CH₂)₁₋₃; Q2 = carbon-carbon single or double bond, etc.; Q3 = (CH₂)₁₋₃], useful for inhibiting CDK4, were prep'd. and formulated. E.g., a multi-step synthesis of II which showed activity (0.1055 .mu.M) in assay of cyclin D1-CDK4 kinase with the ING peptide as substrate, and also was found to inhibit cell growth and Rb (retinoblastoma protein) phosphorylation, was given.

IT 345261-58-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

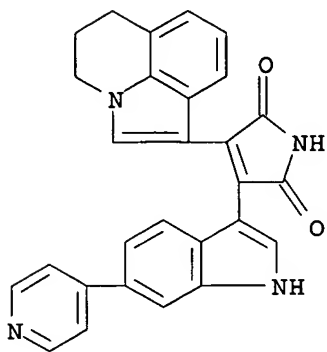
(prepn. of 11H,12H,14H-pyrrolo[3,4-c]quinolino[8',8a',1':3,2,1]-pyrrolo[2,3-a]carbazole-5,7-diones for the treatment of proliferative

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diseases)

RN 345261-58-7 CAPLUS

CN 1H-Pyrrole-2,5-dione, 3-(5,6-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-4-[6-(4-pyridinyl)-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



IT 345262-17-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 11H,12H,14H-pyrrolo[3,4-c]quinolino[8',8a',1':3,2,1]-pyrrolo[2,3-a]carbazole-5,7-diones for the treatment of proliferative diseases)

RN 345262-17-1 CAPLUS

CN 1H-Indolo[2,3-a]pyrido[3,2,1-jk]pyrrolo[3,4-c]carbazole-7,9(8H,14H)-dione, 2,3-dihydro-12-(4-pyridinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

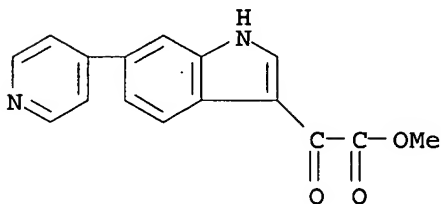
IT 345265-14-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of 11H,12H,14H-pyrrolo[3,4-c]quinolino[8',8a',1':3,2,1]-pyrrolo[2,3-a]carbazole-5,7-diones for the treatment of proliferative diseases)

RN 345265-14-7 CAPLUS

CN 1H-Indole-3-acetic acid, .alpha.-oxo-6-(4-pyridinyl)-, methyl ester (9CI) (CA INDEX NAME)



L3 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:321176 CAPLUS

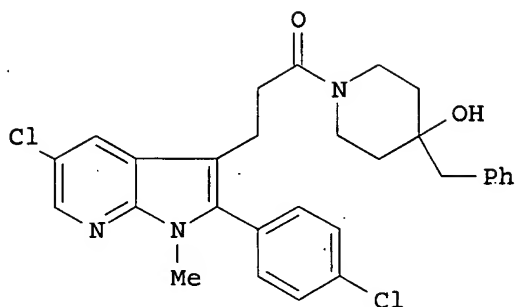
DOCUMENT NUMBER: 135:122367

TITLE: 2-Aryl Indole NK1 receptor antagonists: optimization of indole substitution

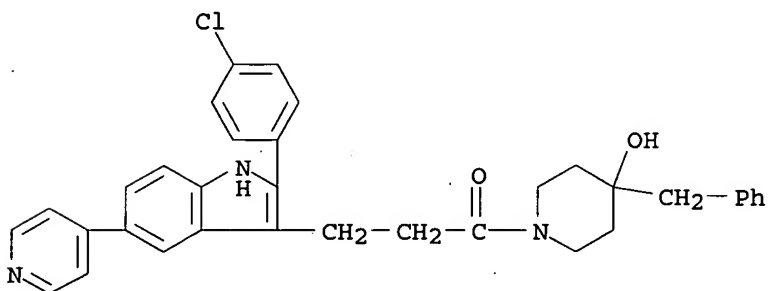
AUTHOR(S): Cooper, L. C.; Chicchi, G. G.; Dinnell, K.; Elliott, J. M.; Hollingworth, G. J.; Kurtz, M. M.; Locker, K. L.; Morrison, D.; Shaw, D. E.; Tsao, K.-L.; Watt, A. P.; Williams, A. R.; Swain, C. J.

CORPORATE SOURCE: Department of Medicinal Chemistry, Merck Sharp & Dohme

SOURCE: Research Laboratories, Neuroscience Research Centre,
Harlow, Essex, CM20 2QR, UK
Bioorganic & Medicinal Chemistry Letters (2001),
11(9), 1233-1236
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:122367
GI



AB The synthesis and biol. evaluation of a series of 2-aryl indoles, e.g. I,
with high affinity for the human neurokinin-1 (hNK1) receptor are
reported, concg. on optimization of the indole substitution.
IT 351227-19-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); BIOL (Biological
study); PREP (Preparation)
(optimization of the indole substitution of aryl indole NK1 receptor
antagonists)
RN 351227-19-5 CAPLUS
CN 4-Piperidinol, 1-[3-[2-(4-chlorophenyl)-5-(4-pyridinyl)-1H-indol-3-yl]-1-
oxopropyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

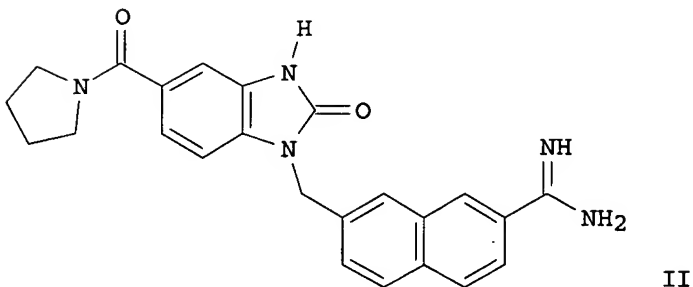
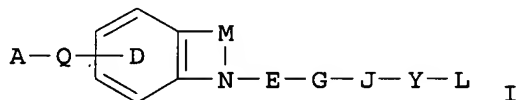


REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:137189 CAPLUS
DOCUMENT NUMBER: 134:193446
TITLE: Preparation of heterocyclic compounds as inhibitors of
factor Xa
INVENTOR(S): Zhu, Bing-Yan; Scarborough, Robert M.; Clizbe, Lane;
Doughan, Brandon; Jia, Zhaozhong-Jon; Kane-Maguire,
Kim; Marlowe, Charles; Song, Yonghong; Su, Ting; Teng,

Willy; Zhang, Penglie
 PATENT ASSIGNEE(S): Cor Therapeutics, Inc., USA; et al.
 SOURCE: PCT Int. Appl., 387 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012600	A1	20010222	WO 2000-US21742	20000810
WO 2001012600	C2	20020912		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 6534535 B1 20030318 US 2000-636804 20000810 PRIORITY APPLN. INFO.: US 1999-148627P P 19990812 US 2000-202202P P 20000505 OTHER SOURCE(S): MARPAT 134:193446 GI				



AB The title compds. [I; A = alkyl, cycloalkyl, (un)substituted Ph, etc.; Q = a direct link, CH₂, CO, etc.; D = (un)substituted Ph, 6-membered heteroaryl having 1-2 ring N atoms; M = NR₁₆CO, NR₁₆CS, CR₁₇R₁₈CO, etc.; R₁₆-R₁₈ = H, halo, alkyl, etc.; E = a direct link, CO, CONR₅, etc.; R₅ = alkyl, alkenyl, alkynyl, etc.; G = a direct link, CR₇R₈, CR_{7a}R_{8a}CR_{7b}R_{8b}, CR_{7c}:CR_{8c}; R₇, R₈, R_{7a}, R_{7b}, R_{7c}, R_{8a}, R_{8b}, R_{8c} = H, halo, alkyl, etc.; J = a direct link, O, S, etc.; Y = (un)substituted Ph, naphthyl, monocyclic or fused bicyclic heterocyclyl; L = H, CN, CONR₁₂R₁₃; R₁₂, R₁₃ = H, alkyl, OH, etc.] having activity against mammalian factor Xa, and useful in vitro or in vivo for preventing or treating coagulation disorders, were prepd. and formulated. E.g., a multi-step synthesis of the title compd. II was given.

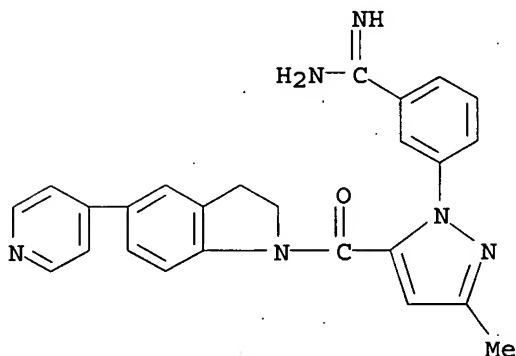
10/ 053,168

IT 327045-79-4P 327045-80-7P 327045-81-8P
327045-87-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of heterocyclic compds. as inhibitors of factor Xa)

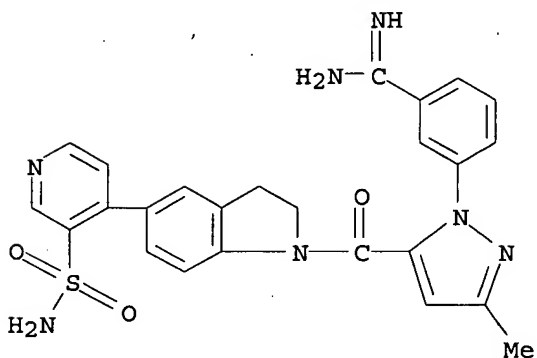
RN 327045-79-4 CAPLUS

CN 1H-Indole, 1-[[1-[3-(aminoiminomethyl)phenyl]-3-methyl-1H-pyrazol-5-yl]carbonyl]-2,3-dihydro-5-(4-pyridinyl)- (9CI) (CA INDEX NAME)



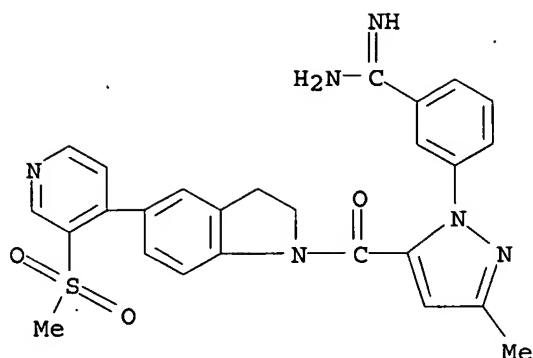
RN 327045-80-7 CAPLUS

CN 1H-Indole, 1-[[1-[3-(aminoiminomethyl)phenyl]-3-methyl-1H-pyrazol-5-yl]carbonyl]-5-[3-(aminosulfonyl)-4-pyridinyl]-2,3-dihydro- (9CI) (CA INDEX NAME)



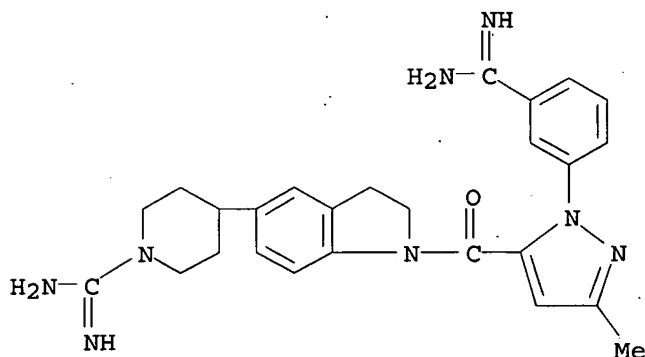
RN 327045-81-8 CAPLUS

CN 1H-Indole, 1-[[1-[3-(aminoiminomethyl)phenyl]-3-methyl-1H-pyrazol-5-yl]carbonyl]-2,3-dihydro-5-[3-(methylsulfonyl)-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 327045-87-4 CAPLUS

CN 1H-Indole, 1-[[1-[3-(aminoiminomethyl)phenyl]-3-methyl-1H-pyrazol-5-yl]carbonyl]-5-[1-(aminoiminomethyl)-4-piperidinyl]-2,3-dihydro- (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:63967 CAPLUS

DOCUMENT NUMBER: 134:131423

TITLE: Preparation of aminoalkylindoles and analogs as 5-HT1D receptor ligands

INVENTOR(S): Edwards, Louise; Isaac, Methvin; Maddaford, Shawn; Slassi, Abdelmalik; Xin, Tao

PATENT ASSIGNEE(S): NPS Allelix Corp., Can.

SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

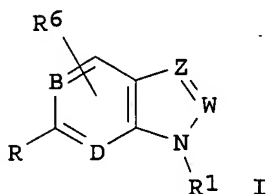
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005758	A2	20010125	WO 2000-CA831	20000714
WO 2001005758	A3	20010719		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,

10/ 053,168

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1196380 A2 20020417 EP 2000-945511 20000714
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
JP 2003505369 T2 20030212 JP 2001-511419 20000714
PRIORITY APPLN. INFO.: US 1999-354091 A 19990715
WO 2000-CA831 W 20000714
OTHER SOURCE(S): MARPAT 134:131423
GI



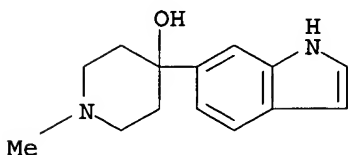
AB Title compds. [I; 1 of B,D = CH and the other = CH or N (W and Z .noteq. N); R = e.g., Z1NR2R3; R1 = H, alkyl, aryl, etc.; R2,R3 = H, (cyclo)alkyl, alkenyl, (un)substituted CH2Ph; NR2R3 = heterocyclyl; R6 = H, halo, alkyl, alkoxy, etc.; W = CH or N; Z = N or CR4; R4 = H or (cyclo)alkyl; Z1 = CH2, CH(OH), CO, etc.] were prepd. Thus, 6-chloroacetyl-1-pivaloylindole was aminated by Me2NH and the product treated with LAH to give 6-(2-dimethylaminoethyl)-1H-indole. Data for biol. activity of I were given.

IT 321744-84-7P 321744-85-8P 321744-86-9P
321744-89-2P 321744-91-6P 321744-92-7P
321744-97-2P 321744-98-3P 321744-99-4P
321745-84-0P 321745-85-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminoalkylindoles and analogs as 5-HT1D receptor ligands)

RN 321744-84-7 CAPLUS

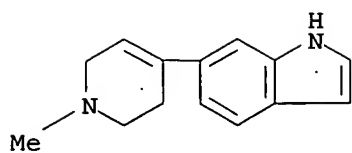
CN 4-Piperidinol, 4-(1H-indol-6-yl)-1-methyl- (9CI) (CA INDEX NAME)



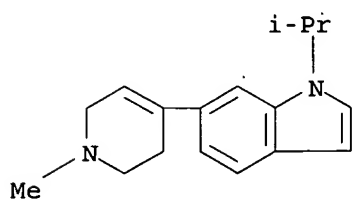
RN 321744-85-8 CAPLUS

CN 1H-Indole, 6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)- (9CI) (CA INDEX NAME)

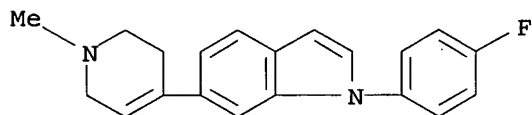
10/ 053,168



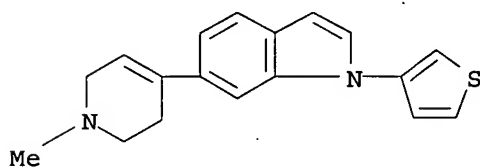
RN 321744-86-9 CAPLUS
CN 1H-Indole, 1-(1-methylethyl)-6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-
(9CI) (CA INDEX NAME)



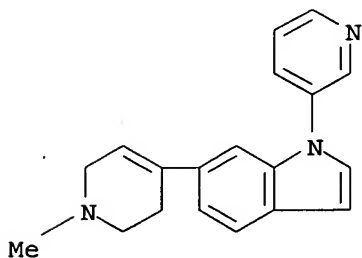
RN 321744-89-2 CAPLUS
CN 1H-Indole, 1-(4-fluorophenyl)-6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-
(9CI) (CA INDEX NAME)



RN 321744-91-6 CAPLUS
CN 1H-Indole, 6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-1-(3-thienyl)-
(9CI) (CA INDEX NAME)



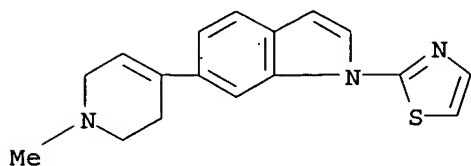
RN 321744-92-7 CAPLUS
CN 1H-Indole, 1-(3-pyridinyl)-6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-
(9CI) (CA INDEX NAME)



RN 321744-97-2 CAPLUS

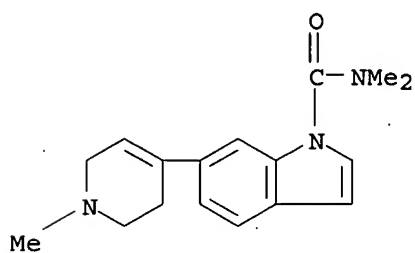
10/ 053,168

CN 1H-Indole, 6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-1-(2-thiazolyl)-
(9CI) (CA INDEX NAME)



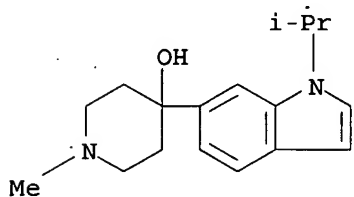
RN 321744-98-3 CAPLUS

CN 1H-Indole-1-carboxamide, N,N-dimethyl-6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)- (9CI) (CA INDEX NAME)



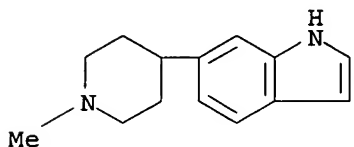
RN 321744-99-4 CAPLUS

CN 4-Piperidinol, 1-methyl-4-[1-(1-methylethyl)-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



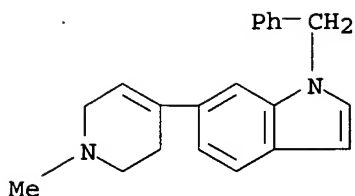
RN 321745-84-0 CAPLUS

CN 1H-Indole, 6-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 321745-85-1 CAPLUS

CN 1H-Indole, 1-(phenylmethyl)-6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-
(9CI) (CA INDEX NAME)



L3 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:900647 CAPLUS

DOCUMENT NUMBER: 134:56657

TITLE: Preparation of substituted heterocycle fused gamma-carbolines

INVENTOR(S): Robichaud, Albert J.; Lee, Taekyu; Deng, Wei; Mitchell, Ian S.; Haydar, Simon; Chen, Wenting; McClung, Christopher D.; Calvello, Emilie J. B.; Zawrotny, David M.

PATENT ASSIGNEE(S): Du Pont Pharmaceuticals Company, USA

SOURCE: PCT Int. Appl., 764 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

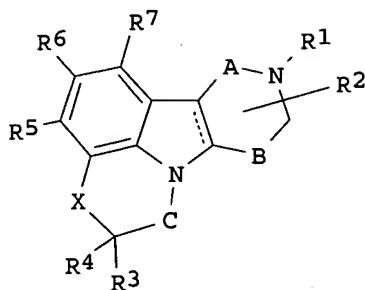
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

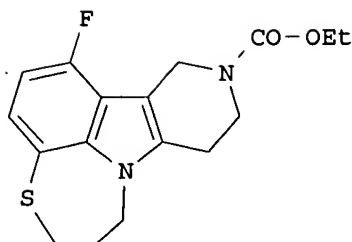
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000077010	A2	20001221	WO 2000-US16373	20000615
WO 2000077010	A3	20010628		
W: AU, BR, CA, CN, CZ, EE, HU, IL, IN, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, VN, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1192165	A2	20020403	EP 2000-942807	20000615
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000012411	A	20020416	BR 2000-12411	20000615
JP 2003502336	T2	20030121	JP 2001-503867	20000615
US 6548493	B1	20030415	US 2000-594008	20000615
US 6552017	B1	20030422	US 2000-595250	20000615
NO 2001006128	A	20020211	NO 2001-6128	20011214
PRIORITY APPLN. INFO.:			US 1999-139321P	P 19990615
			WO 2000-US16373	W 20000615

OTHER SOURCE(S): MARPAT 134:56657

GI



I



II

AB Novel .gamma.-carboline compds. of formula I [R1, R2 = H, acyl, alkyl, cycloalkyl, etc.; R3, R4 = H, OH, amino, CF3, alkyl, etc.; R5-R7 = H, halo, CF3, OH, CN, alkyl, aryl, heterocycle, etc.; X = (substituted) NH, (substituted) CONH, (substituted) NHCO, S; A, B, C = (CH2)n, n = 0-3] are prepd. The invention is also concerned with pharmaceutical formulations comprising these novel compds. as active ingredients and the use of the novel compds. and their formulations in the treatment of certain disorders. The compds. of this invention are serotonin agonists and antagonists and are useful in the control or prevention of central nervous system disorders including obesity, anxiety, depression, psychosis, schizophrenia, sleep disorders, sexual disorders, migraine, conditions assocd. with cephalic pain, social phobias, and gastrointestinal disorders such as dysfunction of the gastrointestinal tract motility. Thus, II is prepd. starting from p-fluorophenol, .beta.-propiolactone and 1-carbethoxy-4-piperidone. Pharmaceutical compns. contg. I are described.

IT 313539-45-6P

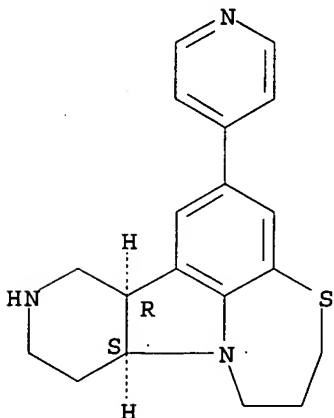
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of substituted heterocycle fused .gamma.-carbolines as serotonin agonists and antagonists)

RN 313539-45-6 CAPLUS

CN 5H-Pyrido[3',4':4,5]pyrrolo[1,2,3-ef][1,5]benzothiazepine, 6,7,8a,9,10,11,12,12a-octahydro-2-(4-pyridinyl)-, (8aR,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 313544-23-9P

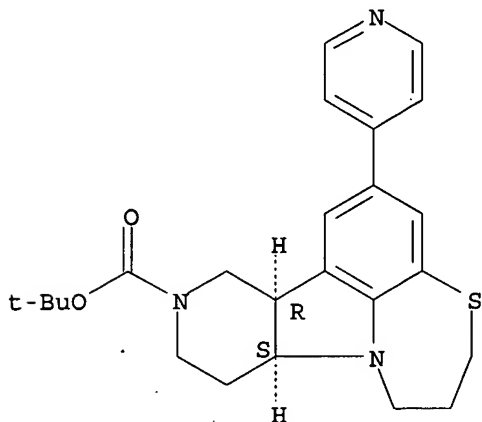
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of substituted heterocycle fused .gamma.-carbolines as
serotonin agonists and antagonists)

RN 313544-23-9 CAPLUS

CN 5H-Pyrido[3',4':4,5]pyrrolo[1,2,3-ef][1,5]benzothiazepine-11(8aH)-
carboxylic acid, 6,7,9,10,12,12a-hexahydro-2-(4-pyridinyl)-,
1,1-dimethylethyl ester, (8aR,12aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:839088 CAPLUS

DOCUMENT NUMBER: 134:17402

TITLE: Preparation of 4-arylpiperidine derivatives for the
treatment of pruritus

INVENTOR(S): Armer, Richard Edward; Bronk, Brian Scott; Gibson,
Stephen Paul; Roberts, Lee Richard; Tommasini, Ivan;
Verrier, Kimberley

PATENT ASSIGNEE(S): Pfizer Inc., USA; Pfizer Limited

SOURCE: Eur. Pat. Appl., 39 pp.

CODEN: EPXXDW

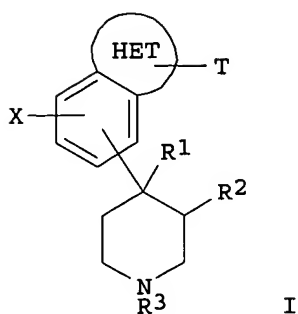
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1055668	A1	20001129	EP 2000-304227	20000518
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6441000	B1	20020827	US 2000-573300	20000518
JP 2001097972	A2	20010410	JP 2000-154475	20000525
JP 2003034689	A2	20030207	JP 2002-142681	20000525
CA 2309505	AA	20001128	CA 2000-2309505	20000526
BR 2000002518	A	20010102	BR 2000-2518	20000529
PRIORITY APPLN. INFO.:			GB 1999-12413	A 19990528
			JP 2000-154475	A3 20000525
OTHER SOURCE(S):		MARPAT 134:17402		
GI				



AB The title compds. I [HET = 5-, 6- or 7-membered heterocyclic ring contg. at least one nitrogen atom, and optionally one or more heteroatoms selected from oxygen or sulfur; T = H, halo, OH, :O, C1-6 alkyl, C1-6 alkoxy, etc.; R1, R2 = H, alkyl; R3 = aryl alkyl, alkenyl, alkynyl; X = halo, alkyl, alkoxy], useful in the prophylaxis and in the treatment of diseases mediated by opiate receptors, such as pruritus, were prepd. E.g., a soln. of trans-4-(1-hexyl-3,4-dimethyl-4-piperidinyl)-1,2-benzenediamine (prepn. given) in 90% formic acid was heated to 100 degree.C for 2 h to give trans-5-(1-hexyl-3,4-dimethyl-4-piperidinyl)-1H-benzimidazole. The opioid receptor binding assays of I for the p-receptor were detd.

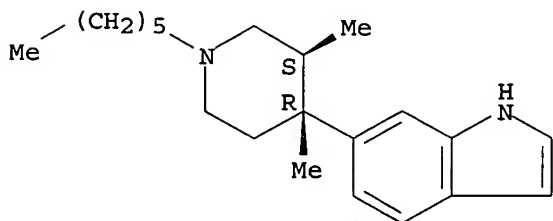
IT 309263-91-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of arylpiperidine derivs. for the treatment of pruritus)

RN 309263-91-0 CAPLUS

CN 1H-Indole, 6-[(3R,4S)-1-hexyl-3,4-dimethyl-4-piperidinyl]-, rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:799078 CAPLUS

DOCUMENT NUMBER: 134:127760

TITLE: Models of monoamine oxidase A and B active sites obtained by using 3D QSAR with ComFA analysis

AUTHOR(S): Tikhonova, O. V.; Veselovsky, A. V.; Medvedev, A. E.; Ivanov, A. S.

CORPORATE SOURCE: Institute of Biomedical Chemistry, Moscow, Russia

SOURCE: Molecular Simulation (2000), 24(4-6), 379-389

CODEN: MOSIEA; ISSN: 0892-7022

PUBLISHER: Gordon & Breach Science Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The monoamine oxidase catalyzes the oxidative deamination of neuroactive amines. This enzyme exists in two forms A and B, which differ by substrates preference and inhibitors specificity. Investigation of the structures of these enzymes and design new selective inhibitors are of greatly interesting since MAO A inhibitors are used in therapeutic practice as antidepressants and MAO B inhibitors - in the treatment Parkinson's diseases. The three dimension structures of monoamine oxidases are still unknown. Therefore, one of the most perspective approach to define significant features of structure of active site is method based on anal. of structure-activity relationship (3D QSAR) with comparison of mol. fields anal. (CoMFA) allowing to get the spatial distribution of important properties affecting the activity. In present study we investigate the structures of active sites MAO A and B using 16 pyrazinocarbazole derivs. in variant conformation. Majority of pyrazinocarbazole derivs. have a right conformation, but three of those is sufficiently flexible. The latters can be in two conformation types: long mols. (substitution accommodate along axis of main structure) and short mols. (substitution accommodate at acute angle about of main structure). Several 3D QSAR and CoMFA models of MAO A and B active sites were design for data sets contg. various types of flexible mols. conformation. All obtained models are statistical reliable and have sufficient predictive power for tested compd. tetrindole. The best MAO A model that include two flexible mols. in long conformations was obtained, and the longest one of those in short conformation. In contrast, for MAO B model contg. all flexible mols. in the short conformations is more preferred. On the basis of obtained data the schematic models of MAO A and B active sites structures are proposed. According to these models MAO A active site have the narrow long cavity that accommodate long mols., while MAO B active site is broader and shorter.

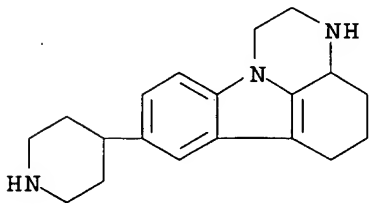
IT 219518-43-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(models of monoamine oxidase A and B active sites obtained by using 3D QSAR with CoMFA anal.)

RN 219518-43-1 CAPLUS

CN 1H-Pyrazino[3,2,1-jk]carbazole, 2,3,3a,4,5,6-hexahydro-8-(4-piperidinyl)-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:774146 CAPLUS

DOCUMENT NUMBER: 134:143706

TITLE: Selective inhibitors and computer modelling of the active site of monoamine oxidase

AUTHOR(S): Medvedev, A. E.; Ivanov, A. S.; Veselovsky, A. V.

CORPORATE SOURCE: Institute of Biomedical Chemistry, Russian Academy of Medical Sciences, Moscow, 119832, Russia

SOURCE: Neurobiology (Budapest) (2000), 8(2), 201-214
CODEN: NROBEZ; ISSN: 1216-8068

PUBLISHER: Akademiai Kiado

DOCUMENT TYPE: Journal

LANGUAGE: English

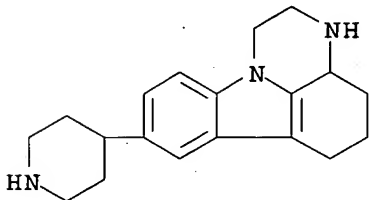
AB MAO inhibitors can be employed for computer modeling of the active site of MAO A and B. Competitive fully reversible MAO inhibitors with rigid structure and limited no. of conformers are preferential compds. for these studies. Among various isatin analogs with nearplanar structure selective MAO B inhibitors fit to 3D box of 8.5 .times. 5.1 .times. 1.8 .ANG., whereas 3D box of 14.2 .times. 5.6 .times. 1.8 .ANG. accommodates selective MAO A inhibitors. Validity of these data was tested using a series of pyrazinocarbazoles, analogs of short-acting antidepressant pirlindole. Rigid analogs exhibiting potent and selective inhibition of MAO A have 3D size limits of 13 .times. 7 .times. 4.4 .ANG.. Flexible analogs also demonstrated potent inhibition of MAO B and in contrast to rigid analogs their inhibitory activity did not show any dependence on 3D sizes. 3D-QSAR with CoMFA of isatin and pirlindole analogs of MAO A and B revealed differences in the models of MAO A and B.

IT 219518-43-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(selective inhibitors and computer modeling of active site of monoamine oxidase)

RN 219518-43-1 .CAPLUS

CN 1H-Pyrazino[3,2,1-jk]carbazole, 2,3,3a,4,5,6-hexahydro-8-(4-piperidinyl)-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:456878 CAPLUS

DOCUMENT NUMBER: 133:89522

TITLE: Preparation of indole and indolizidine derivatives for the treatment of migraine

INVENTOR(S): Arora, Jalaj; Edwards, Louise; Isaac, Methvin; Maddaford, Shawn; Slassi, Abdelmalik; Tehim, Ashok; Xin, Tao

PATENT ASSIGNEE(S): Allelix Biopharmaceuticals Inc., Can.

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000038677	A1	20000706	WO 1999-CA1241	19991222
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				

DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

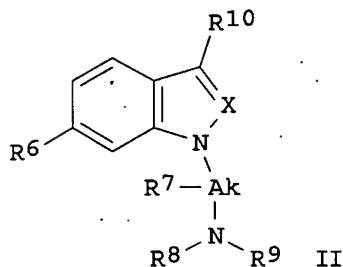
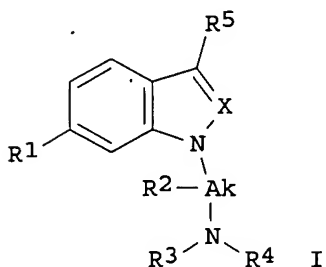
CA 2356638	AA	20000706	CA 1999-2356638	19991222
EP 1140074	A1	20011010	EP 1999-962019	19991222

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

US 6380242	B1	20020430	US 1999-469327	19991222
JP 2002533391	T2	20021008	JP 2000-590631	19991222
US 2002169322	A1	20021114	US 2002-73130	20020213

PRIORITY APPLN. INFO.:
US 1998-113932P P 19981223
US 1999-469327 A3 19991222
WO 1999-CA1241 W 19991222

OTHER SOURCE(S): MARPAT 133:89522
GI



AB The title compds. [I; X = N, CH; R1 = (un)substituted (un)satd. 5-7 membered monocyclic or benzo-fused heterocyclic ring; Ak = alkylene chain which may be substituted with R2 (wherein R2 = alkyl); R3, R4 = H, alkyl, alkenyl, etc.; or one pair of R2 and R3 or R3 and R4 together may form an alkylene or alkenylene bridge which, with the nitrogen atom, form (un)substituted 3-7 membered ring; R5 = H, alkyl, (un)satd. 4-7 membered carbocyclic or heterocyclic group], useful for the treatment of migraine, were prepd. and formulated. E.g., a multi-step synthesis of indole I [X = CH; R1 = tetrahydropyran-4-yl; Ak = (CH2)2; R3, R4 = Me; R5 = H] which showed inhibition of > 90% at the 5-HT1D receptor, was given. Also disclosed are novel compds. II [X = N, CH; R6 = (un)substituted (un)satd. 5-7 membered monocyclic or benzo-fused heterocyclic ring; Ak = alkylene chain which may be substituted with R7 (wherein R7 = alkyl); R8, R9 = H, alkyl, alkenyl, etc.; R10 = H, alkyl, (un)satd. 4-7 membered carbocyclic or heterocyclic group].

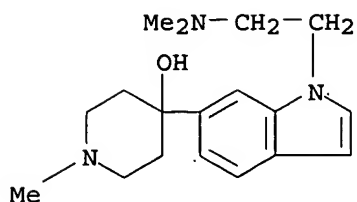
IT 281202-74-2P 281202-87-7P 281204-37-3P
281204-40-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

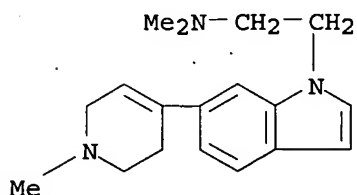
(prepn. of indoles and indolizidines for the treatment of migraine)

RN 281202-74-2 CAPLUS

CN 4-Piperidinol, 4-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-1-methyl-
(9CI) (CA INDEX NAME)

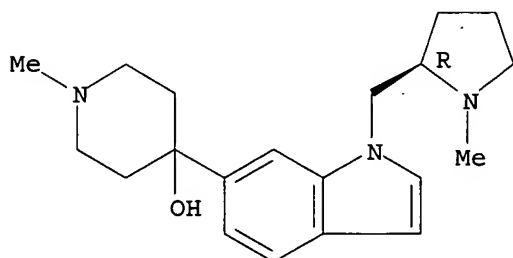


RN 281202-87-7 CAPLUS
CN 1H-Indole-1-ethanamine, N,N-dimethyl-6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)- (9CI) (CA INDEX NAME)



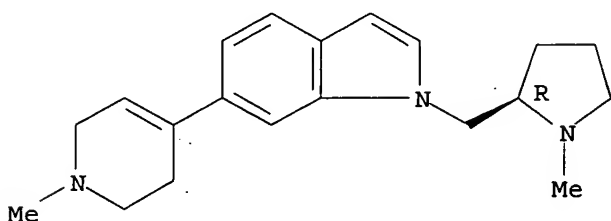
RN 281204-37-3 CAPLUS
CN 4-Piperidinol, 1-methyl-4-[1-[[[(2R)-1-methyl-2-pyrrolidinyl]methyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 281204-40-8 CAPLUS
CN 1H-Indole, 1-[[[(2R)-1-methyl-2-pyrrolidinyl]methyl]-6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)- (9CI) (CA INDEX NAME)

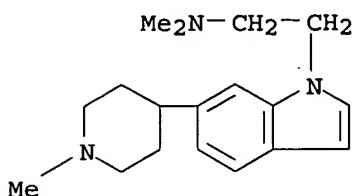
Absolute stereochemistry.



IT 281203-00-7P 281204-08-8P 281204-42-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of indoles and indolizidines for the treatment of migraine)
RN 281203-00-7 CAPLUS

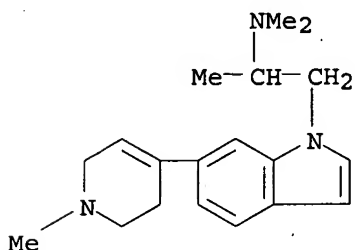
10/ 053,168

CN 1H-Indole-1-ethanamine, N,N-dimethyl-6-(1-methyl-4-piperidinyl)- (9CI)
(CA INDEX NAME)



RN 281204-08-8 CAPLUS

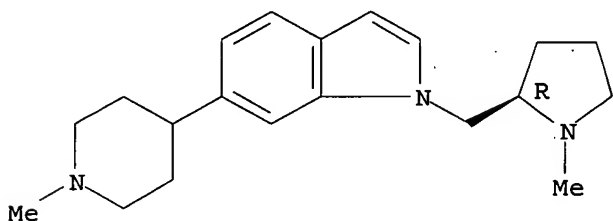
CN 1H-Indole-1-ethanamine, N,N,.alpha.-trimethyl-6-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 281204-42-0 CAPLUS

CN 1H-Indole, 6-(1-methyl-4-piperidinyl)-1-[[(2R)-1-methyl-2-pyrrolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 27 OF 35 : CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:210164 CAPLUS

DOCUMENT NUMBER: 132:251073

TITLE: Preparation of 3-(azabicycloalkyl)indoles as 5-HT1D receptor ligands

INVENTOR(S): Edwards, Louise; Slassi, Abdelmalik; Tehim, Ashok; Xin, Tao

PATENT ASSIGNEE(S): Allelix Biopharmaceuticals Inc., Can.

SOURCE: PCT Int. Appl., 74 pp.

CODEN: PIXXD2

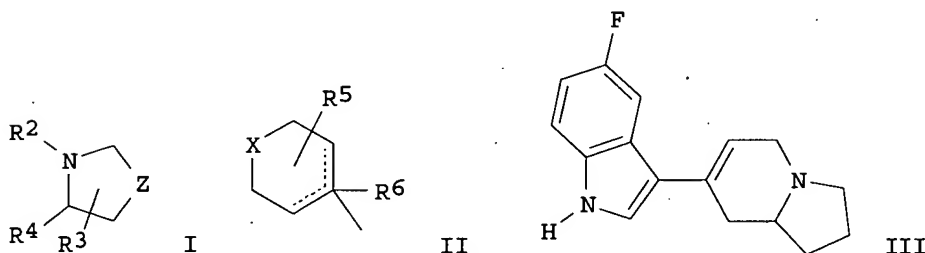
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000017198	A1	20000330	WO 1999-CA833	19990913
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6562809	B1	20030513	US 1998-156496	19980918
CA 2343391	AA	20000330	CA 1999-2343391	19990913
AU 9956135	A1	20000410	AU 1999-56135	19990913
EP 1114049	A1	20010711	EP 1999-942679	19990913
EP 1114049	B1	20030319		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002526497	T2	20020820	JP 2000-574107	19990913
AT 234837	E	20030415	AT 1999-942679	19990913
PRIORITY APPLN. INFO.:			US 1998-156496	A 19980918
			WO 1999-CA833	W 19990913
OTHER SOURCE(S):		MARPAT 132:251073		
GI				



AB Title compds. [I; R2R4 = (un)substituted CH₂CH₂N(Z1R1)CH₂, -CH₂CHC(Z1R1)CH₂, -CH₂CH₂C(Z1R1):CH; R1 = H, halo, alkyl, alkoxy, heterocyclyl group II; R3 = H, OH, alkyl, alkoxy, etc.; R5 = H, OH, alkyl, alkoxy; R6 = null when 1 of dashed lines = bond; R6 = H, OH, alkoxy when dashed lines = null; X = O, S, (alkyl)imino, alkylidene, etc.; Z = (CH₂)₁₋₃; Z1 = (1-alkyl) indole-3,5-diyl] were prepd. Thus, octahydroindolizin-7-one was condensed with 5-fluoro-1H-indole to give title compd III. Data for biol. activity of I were given.

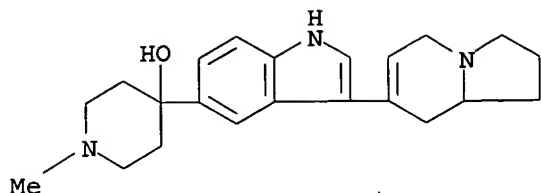
IT 262593-24-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3-(azabicycloalkyl)indoles as 5-HT_{1D} receptor ligands)

RN 262593-24-8 CAPLUS

CN 4-Piperidinol, 4-[3-(1,2,3,5,8,8a-hexahydro-7-indoliziny)-1H-indol-5-yl]-1-methyl- (9CI) (CA INDEX NAME).



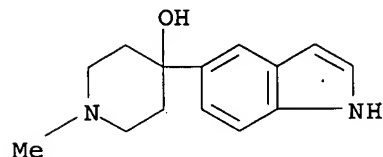
IT 262593-61-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of 3-(azabicycloalkyl)indoles as 5-HT1D receptor ligands)

RN 262593-61-3 CAPLUS

CN 4-Piperidinol, 4-(1H-indol-5-yl)-1-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:135316 CAPLUS

DOCUMENT NUMBER: 133:53138

TITLE: Inhibition of monoamine oxidase by pirlindole analogues: 3D-QSAR analysis

AUTHOR(S): Medvedev, A. E.; Ramsay, R. R.; Ivanov, A. S.; Veselovsky, A. S.; Shvedov, V. I.; Tikhonova, O. V.; Barradas, A.-P. V.; Davidson, C. K.; Moskvitina, T. A.; Fedotova, O. A.; Axenova, L. N.

CORPORATE SOURCE: Institute of Biomedical Chemistry, Moscow, Russia

SOURCE: Neurobiology (Budapest) (1999), 7(2), 151-158

CODEN: NROBEZ; ISSN: 1216-8068

PUBLISHER: Akademiai Kiado

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of pirlindole analogs were tested as inhibitors of monoamine oxidase A and B. Although we did not find strict dependence between 3D-size of mols. and their inhibitory potency, rigid analogs exhibited potent and selective inhibition of MAO-A. They have 3D size limits of 13 angstroms (length) .times. 7 angstroms (height) .times. 4.4 angstroms (widths). Besides MAO-A inhibition flexible analogs also demonstrated potent inhibition of MAO-B. Five compds. were studied as inhibitors of purified human liver MAO-A. Their inhibitory potencies coincided with those obtained using rat liver mitochondrial MAO-A. Each compd. induced changes in the spectrum of MAO-A but these did not correlate with the flexibility of the deriv. It is also possible that the oxygen bridge introduced with the flexibility might influence spectral patterns.

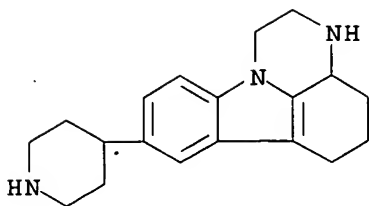
IT 219518-43-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(inhibition of monoamine oxidase by pirlindole analogs: 3D-QSAR anal.)

RN 219518-43-1 CAPLUS

CN 1H-Pyrazino[3,2,1-jk]carbazole, 2,3,3a,4,5,6-hexahydro-8-(4-piperidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:15012 CAPLUS

DOCUMENT NUMBER: 132:64175

TITLE: Preparation of piperidine derivatives having effects on serotonin related systems

INVENTOR(S): Hertel, Larry Wayne; Kohlmam, Daniel Timothy; Liang, Sidney Xi; Wong, David Taiwai; Xu, Yao-Chang

PATENT ASSIGNEE(S): Eli Lilly and Company, USA

SOURCE: PCT Int. Appl., 143 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

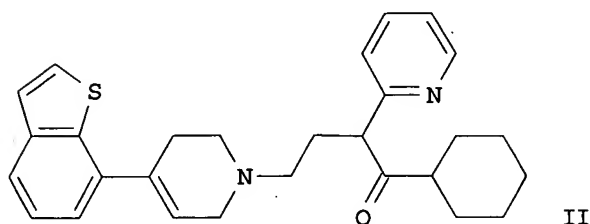
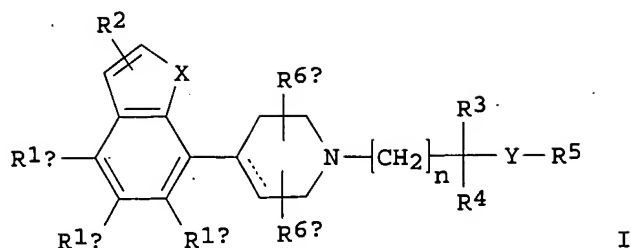
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000000198	A1	20000106	WO 1999-US14732	19990629
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2336117	AA	20000106	CA 1999-2336117	19990629
AU 9947266	A1	20000117	AU 1999-47266	19990629
EP 982304	A1	20000301	EP 1999-305095	19990629
EP 982304	B1	20021002		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
EP 1146045	A1	20011017	EP 2001-202620	19990629
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
JP 2002519323	T2	20020702	JP 2000-556783	19990629
AT 225345	E	20021015	AT 1999-305095	19990629
ES 2181366	T3	20030216	ES 1999-305095	19990629
US 6436964	B1	20020820	US 2000-701406	20001128
PRIORITY APPLN. INFO.:				
			US 1998-91241P	P 19980630
			EP 1999-305095	A3 19990629
			WO 1999-US14732	W 19990629

OTHER SOURCE(S): MARPAT 132:64175

GI



AB The title compds. [I; X = O, S, SO, SO₂, NR; Y = CO, CH(OH), CH₂, etc.; n = 1-4; R = H, alkyl; R_{1a}, R_{1b}, R_{1c}, R₂ = H, F, Cl, Br, etc.; R₃ = O, OH, alkyl, etc.; R₄ = (un)substituted aryl, heterocyclyl, cycloalkyl, etc., R₅ = (un)substituted aryl, heterocyclyl, cycloalkyl, etc., R_{6a}, R_{6b} = H, alkyl] and their pharmaceutically acceptable salts, useful for inhibiting the reuptake of serotonin, antagonizing the 5-HT_{1A} receptor and antagonizing the 5-HT_{2A} receptor, and therefore useful in treating depression, were prepd. and formulated. E.g., a multi-step synthesis of tetrahydropyridine II.oxalate, was given. In general, compds. I are effective at 1-200 mg/day.

IT 253428-38-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of piperidine derivs. having effects on serotonin related systems)

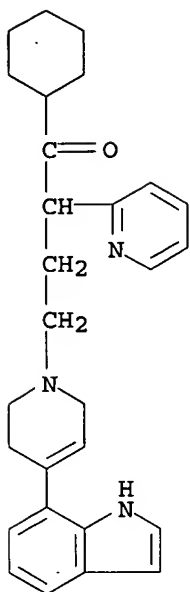
RN 253428-38-5 CAPLUS

CN 1-Butanone, 1-cyclohexyl-4-[3,6-dihydro-4-(1H-indol-7-yl)-1(2H)-pyridinyl]-2-(2-pyridinyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 253428-37-4

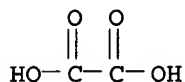
CMF C28 H33 N3 O



CM 2

CRN 144-62-7

CMF C2 H2 O4



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:819367 CAPLUS

DOCUMENT NUMBER: 132:49984

TITLE: Preparation of 4-, 5-, 6- and 7-indole and indoline derivatives as potent serotonin reuptake inhibitors and 5-HT1A antagonists

INVENTOR(S): Moltzen, Ejner Knud; Mikkelsen, Ivan; Krog-Jensen, Christian

PATENT ASSIGNEE(S): H. Lundbeck A/S, Den.

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967237	A1	19991229	WO 1999-DK326	19990614

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,

applicant is

RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2335711	AA	19991229	CA 1999-2335711	19990614
AU 9943592	A1	20000110	AU 1999-43592	19990614
BR 9911843	A	20010320	BR 1999-11843	19990614
EP 1089997	A1	20010411	EP 1999-926281	19990614

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

NO 2000006460	A	20010219	NO 2000-6460	20001218
BG 105136	A	20010928	BG 2001-105136	20010110
US 6391882	B1	20020521	US 2001-719849	20010202
US 2002128272	A1	20020912	US 2002-53168	20020115

PRIORITY APPLN. INFO.: DK 1998-820 A 19980619
 US 1998-92823P P 19980714
 WO 1999-DK326 W 19990614
 US 2001-719849 A3 20010202

OTHER SOURCE(S): MARPAT 132:49984
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; W = N, C, CH, COH; A = II (wherein X = O, S, N, etc.; Y = N, O, S, etc.; provided that X and Y are not both O or S), III (U = C, CH, N), IV; n = 0-5; m = 0-5; Z = CH₂, O, S, etc.; R₃-R₉, R₁₁, R₁₂ = H, halo, CN, etc.; R₁₀ = H, alkenyl, alkynyl, etc.] and their acid addn. salts, potent serotonin reuptake inhibitors and 5-HT_{1A} receptor antagonists which are useful in treating of affective disorders, such as depression, psychosis, and anxiety disorders, were prepd. Thus, reaction of 2-(3-benzofuranyl)acetic acid with 1-(1H-indol-4-yl)piperazine in the presence of N,N-dicyclohexylcarbodiimide in THF/DMF followed by treatment of the resulting 1-(3-benzofuranyl)methylcarbonyl-4-(1H-indol-4-yl)piperazine with LiAlH₄ in THF afforded V.oxalate which showed IC₅₀ of 31 nM against serotonin reuptake.

IT 252977-98-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 4-, 5-, 6- and 7-indole and indoline derivs. as potent serotonin reuptake inhibitors and 5-HT_{1A} antagonists)

RN 252977-98-3 CAPLUS

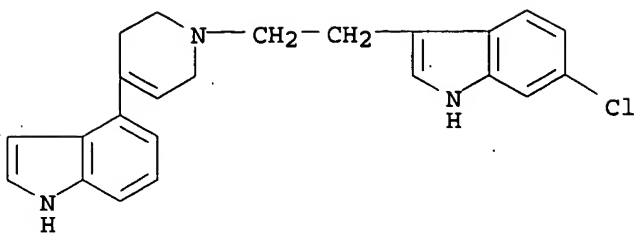
CN 1H-Indole, 6-chloro-3-[2-[3,6-dihydro-4-(1H-indol-4-yl)-1(2H)-pyridinyl]ethyl]-, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 252977-97-2

CMF C23 H22 Cl N3

10/ 053,168

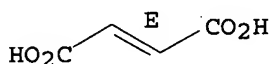


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.

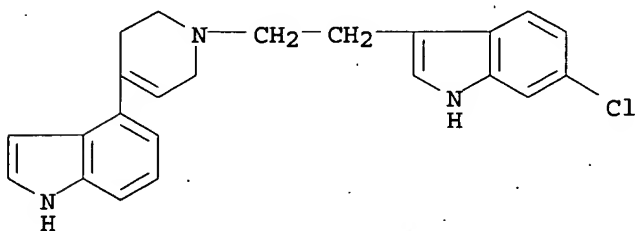


IT 252977-97-2P 252977-99-4P 252978-00-0P
252978-50-0P 252978-51-1P 252978-60-2P
252978-73-7P 252978-74-8P 252978-75-9P
252978-77-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 4-, 5-, 6- and 7-indole and indoline derivs. as potent serotonin reuptake inhibitors and 5-HT1A antagonists)

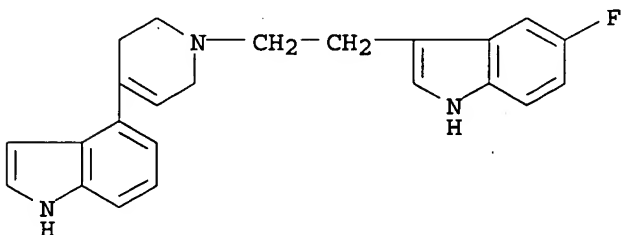
RN 252977-97-2 CAPLUS

CN 1H-Indole, 6-chloro-3-[2-[3,6-dihydro-4-(1H-indol-4-yl)-1(2H)-pyridinyl]ethyl]- (9CI) (CA INDEX NAME)



RN 252977-99-4 CAPLUS

CN 1H-Indole, 3-[2-[3,6-dihydro-4-(1H-indol-4-yl)-1(2H)-pyridinyl]ethyl]-5-fluoro- (9CI) (CA INDEX NAME)



10/ 053,168

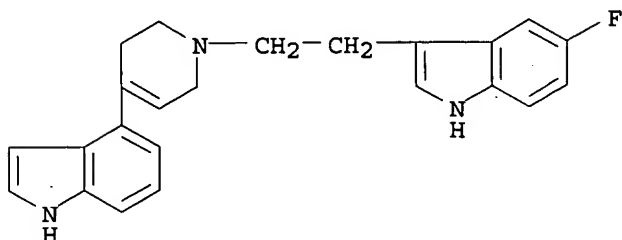
RN 252978-00-0 CAPLUS

CN 1H-Indole, 3-[2-[3,6-dihydro-4-(1H-indol-4-yl)-1(2H)-pyridinyl]ethyl]-5-fluoro-, (2E)-2-butenedioate (1:3) (9CI) (CA INDEX NAME)

CM 1

CRN 252977-99-4

CMF C23 H22 F N3

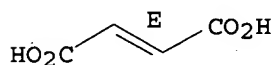


CM 2

CRN 110-17-8

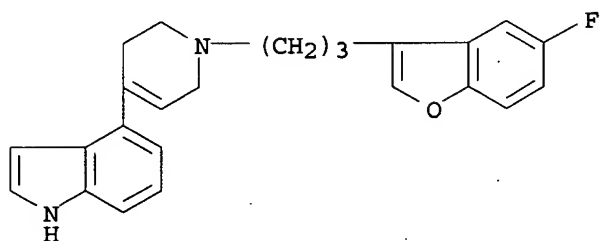
CMF C4 H4 O4

Double bond geometry as shown.



RN 252978-50-0 CAPLUS

CN 1H-Indole, 4-[1-[3-(5-fluoro-3-benzofuranyl)propyl]-1,2,3,6-tetrahydro-4-pyridinyl]-, (9CI) (CA INDEX NAME)



RN 252978-51-1 CAPLUS

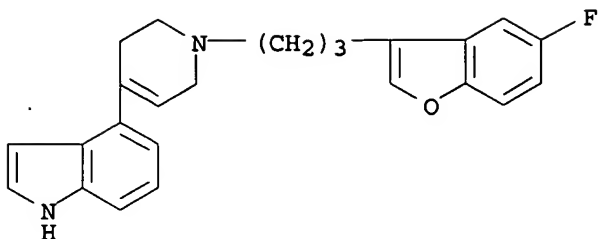
CN 1H-Indole, 4-[1-[3-(5-fluoro-3-benzofuranyl)propyl]-1,2,3,6-tetrahydro-4-pyridinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 252978-50-0

CMF C24 H23 F N2 O

10/ 053,168

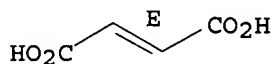


CM 2

CRN 110-17-8

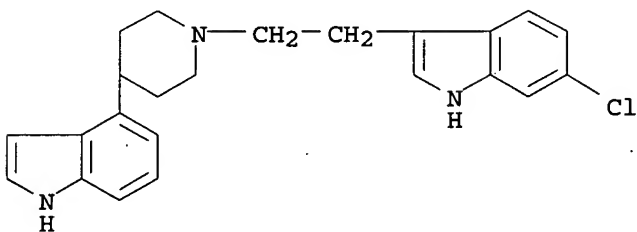
CMF C4 H4 O4

Double bond geometry as shown.



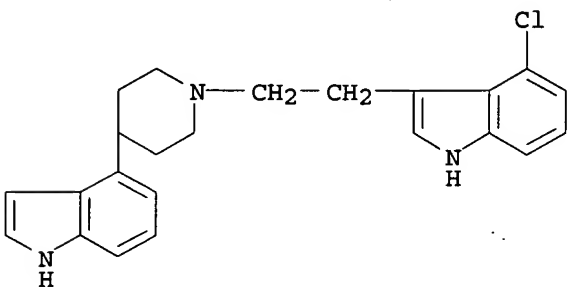
RN 252978-60-2 CAPLUS

CN 1H-Indole, 6-chloro-3-[2-[4-(1H-indol-4-yl)-1-piperidinyl]ethyl]- (9CI)
(CA INDEX NAME)



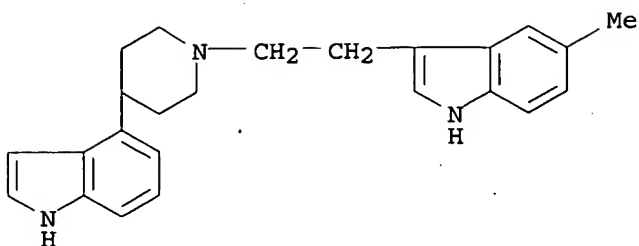
RN 252978-73-7 CAPLUS

CN 1H-Indole, 4-chloro-3-[2-[4-(1H-indol-4-yl)-1-piperidinyl]ethyl]- (9CI)
(CA INDEX NAME)

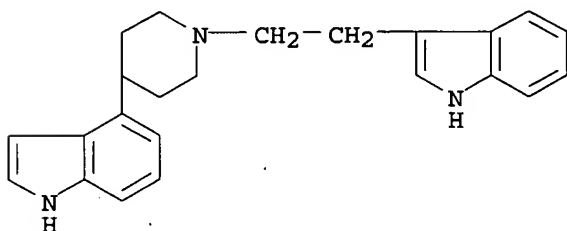


RN 252978-74-8 CAPLUS

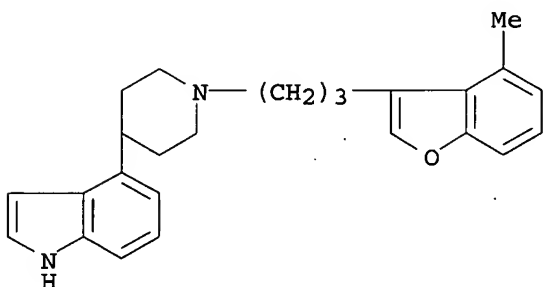
CN 1H-Indole, 3-[2-[4-(1H-indol-4-yl)-1-piperidinyl]ethyl]-5-methyl- (9CI)
(CA INDEX NAME)



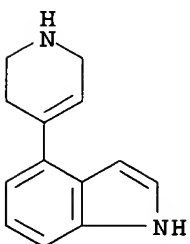
RN 252978-75-9 CAPLUS
CN 1H-Indole, 3-[2-[4-(1H-indol-4-yl)-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



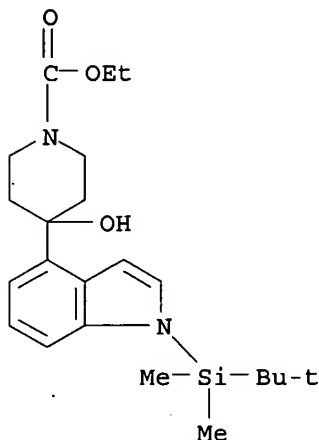
RN 252978-77-1 CAPLUS.
CN 1H-Indole, 4-[1-[3-(4-methyl-3-benzofuranyl)propyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



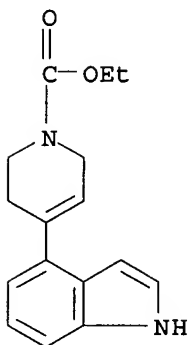
IT 252978-93-1P 252978-94-2P 252978-95-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 4-, 5-, 6- and 7-indole and indoline derivs. as potent serotonin reuptake inhibitors and 5-HT1A antagonists)
RN 252978-93-1 CAPLUS
CN 1H-Indole, 4-(1,2,3,6-tetrahydro-4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 252978-94-2 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[1-[(1,1-dimethylethyl)dimethylsilyl]-1H-indol-4-yl]-4-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



RN 252978-95-3 CAPLUS
 CN 1(2H)-Pyridinecarboxylic acid, 3,6-dihydro-4-(1H-indol-4-yl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:808573 CAPLUS
 DOCUMENT NUMBER: 132:57127
 TITLE: Imaging medium and process for producing an image
 INVENTOR(S): Gaudiana, Russell A.; Haddock, Robert W.; Haque, Serajul; Kliman, Bloom Iris B.; Marshall, John L.; Ramos, Socorro M.; Takiff, Larry C.; Telfer, Stephen J.; Young, Michael A.
 PATENT ASSIGNEE(S): Polaroid Corp., USA
 SOURCE: U.S., 36 pp., Cont.-in-part of U.S. 5,631,118.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 US 6004719 A 19991221
 US 5441850 A 19950815
 US 5631118 A 19970520
 WO 9824000 A1 19980604

 US 1997-858659 19970519
 US 1994-232725 19940425
 US 1995-430420 19950428
 WO 1997-US21856 19971126

W: CA, JP, US

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

EP 951661 A1 19991027

EP 1997-947637 19971126

R: DE, FR, GB, IT, NL

US 6015907 A 20000118

US 1997-979375 19971126

PRIORITY APPLN. INFO.:

US 1994-232725 A2 19940425

US 1995-430420 A2 19950428

US 1996-757195 A 19961127

US 1997-858659 A 19970519

US 1997-944284 A2 19971006

WO 1997-US21856 W 19971126

OTHER SOURCE(S): MARPAT 132:57127

AB A process for producing an image uses an imaging medium comprising an acid-generating layer or phase comprising a mixt. of a superacid precursor, a sensitizing dye and a secondary acid generator, and a color-change layer comprising an image dye. The sensitizing dye has 1st and 2nd forms, the 1st form having substantially greater substantial absorption in a 1st wavelength range than the 2nd form. The superacid precursor is not capable, in the absence of the 1st form of the sensitizing dye, of being decompd. by radiation in the 1st wavelength range. The secondary acid generator is capable of thermal decompn., catalyzed by superacid, to form a secondary acid. While at least part of the sensitizing dye is in its 1st form, the medium is imagewise exposed to radiation in the 1st wavelength range, thereby causing, in the exposed areas of the acid-generating layer, the formation of superacid. The medium is then heated to cause, in the exposed areas, thermal decompn. of the secondary acid generator, catalyzed by the superacid, and formation of the secondary acid. The components of the acid-generating and color-change layers or phases are then mixed so that the secondary acid causes a change in color of the image dye, and the sensitizing dye is converted to its 2nd form. The acid-generating layer or phase desirably includes a cosensitizer which is a reducing agent less basic than the secondary acid generator.

IT 252916-23-7P

RL: NUU (Other use, unclassified); PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (indicator dye for imaging medium and process for producing image)

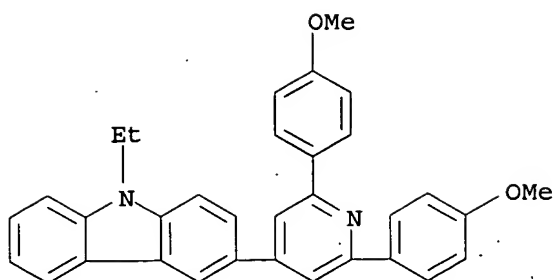
RN 252916-23-7 CAPLUS

CN Antimonate(1-), hexafluoro-, (OC-6-11)-, hydrogen, compd. with 3-[2,6-bis(4-methoxyphenyl)-4-pyridinyl]-9-ethyl-9H-carbazole (1:1) (9CI) (CA INDEX NAME)

CM 1

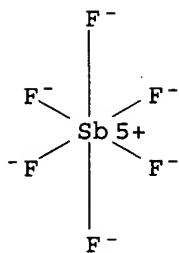
CRN 252916-22-6

CMF C33 H28 N2 O2



CM 2

CRN 16950-06-4
 CMF F6 Sb . H
 CCI CCS

H⁺

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:779222 CAPLUS

DOCUMENT NUMBER: 132:22868

TITLE: Preparation of 5-(hetero)cycloalkylindoles as 5-HT1D-like receptor agonists

INVENTOR(S): Slassi, Abdelmalik; Edwards, Louise; Meng, Qingchang; Rakhit, Sumanas

PATENT ASSIGNEE(S): Allelix Biopharmaceuticals, Inc., Can.

SOURCE: U.S., 30 pp.
 CODEN: USXXAM

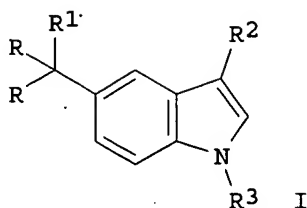
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5998438	A	19991207	US 1997-976103	19971121
PRIORITY APPLN. INFO.:			US 1996-69887	19961126
OTHER SOURCE(S):			MARPAT 132:22868	
GI				



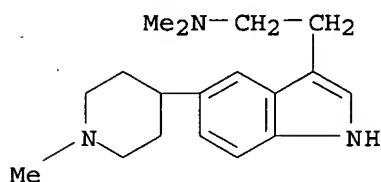
AB Title compds. [I; RR = atoms to complete an (un)substituted carbo- or heterocyclic ring; R1 = null, H, OH; R2 = CR5R6CH2NR7R8, 2- or 3-pyrrolidinyl, etc.; R3 = H or Bz; R5,R6 = H, OH, alkoxy; R7,R8 = H or alkyl; NR7R8 = heterocyclyl] were prepd. Thus, 5-bromoindole was treated with (COCl)₂ and the product amidated with Me₂NH to give 5-bromo-3-(dimethylaminoglyoxyloyl)indole which was condensed with 1-cyclohexenyltributylstannane to give, after redn., I (RR = 1-cyclohexenyl, R1 = null, R2 = CH₂CH₂NMe₂, R3 = H). Data for biol. activity of I were given.

IT 251967-65-4P 251967-66-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 5-(hetero)cycloalkylindoles as 5-HT_{1D}-like receptor agonists)

RN 251967-65-4 CAPLUS

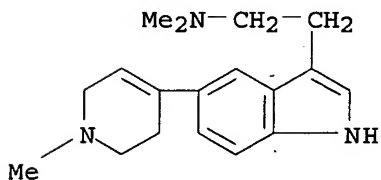
CN 1H-Indole-3-ethanamine, N,N-dimethyl-5-(1-methyl-4-piperidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 251967-66-5 CAPLUS

CN 1H-Indole-3-ethanamine, N,N-dimethyl-5-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:645611 CAPLUS

DOCUMENT NUMBER: 132:49850

TITLE: Synthesis of pharmacologically active indoles

AUTHOR(S): Hishmat, O. H.; Ebeid, M. Y.; Nakkady, S. S.; Fathy, M. M.; Mahmoud, S. S.

CORPORATE SOURCE: Natural Products Department, National Research Centre, Cairo, Egypt

SOURCE: Bollettino Chimico Farmaceutico (1999), 138(6), 259-266

CODEN: BCFAAI; ISSN: 0006-6648

PUBLISHER: Societa Editoriale Farmaceutica

DOCUMENT TYPE: Journal

LANGUAGE: English

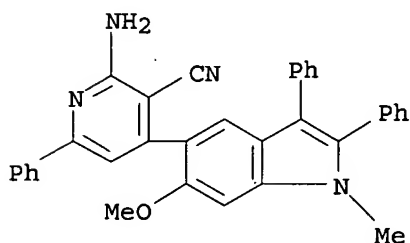
AB Formylation of 6-methoxy-1-methyl- (I) and 5-methyl-2,3-diphenyl-1H-indole (II) gave the 5- (III) and 6-carboxaldehyde derivs. (IV), resp., which were treated with Et cyanoacetate to form the corresponding 2-cyano-3-substituted acrylic acid Et esters. The latter compds. reacted with hydrazine hydrate, urea and thiourea to form the corresponding 5-amino-4-substituted 2,4-dihydropyrazol-3-one, 6-indolyl-2,4-dioxo-1,2,3,4-tetrahydropyrimidine-5-carbonitriles, and 6-indolyl-4-oxo-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carbonitriles. Reaction of the 5- and 6-carboxaldehyde derivs. with malononitrile afforded the 2-substituted malononitrile derivs. These reacted readily with arom. ketones to give the 2-amino-4,6-disubstituted nicotinonitriles. Several products, e.g., I-IV, were tested for antiinflammatory, ulcerogenic, and antispasmodic activities.

IT 252915-53-0P 252915-58-5P 252915-59-6P
252915-60-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(pharmacol. active indoles)

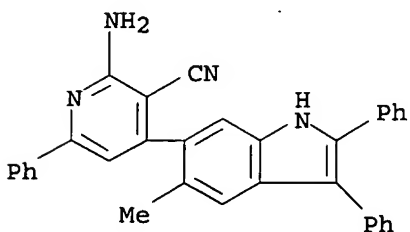
RN 252915-53-0 CAPLUS

CN 3-Pyridinecarbonitrile, 2-amino-4-(6-methoxy-1-methyl-2,3-diphenyl-1H-indol-5-yl)-6-phenyl- (9CI) (CA INDEX NAME)



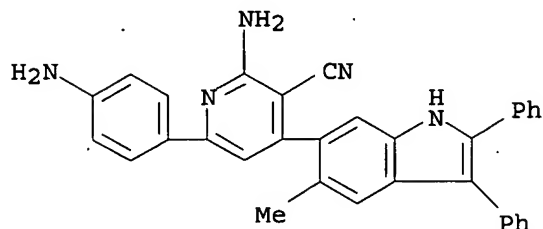
RN 252915-58-5 CAPLUS

CN 3-Pyridinecarbonitrile, 2-amino-4-(5-methyl-2,3-diphenyl-1H-indol-6-yl)-6-phenyl- (9CI) (CA INDEX NAME)

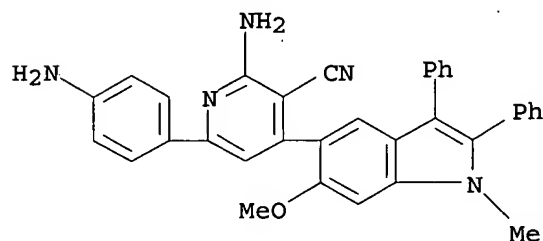


10/ 053,168

RN 252915-59-6 CAPLUS
CN 3-Pyridinecarbonitrile, 2-amino-6-(4-aminophenyl)-4-(5-methyl-2,3-diphenyl-1H-indol-6-yl)- (9CI) (CA INDEX NAME)



RN 252915-60-9 CAPLUS
CN 3-Pyridinecarbonitrile, 2-amino-6-(4-aminophenyl)-4-(6-methoxy-1-methyl-2,3-diphenyl-1H-indol-5-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:745030 CAPLUS

DOCUMENT NUMBER: 130:13915

TITLE: Indole derivatives having combined 5HT1A, 5HT1B, and 5HT1D receptor antagonist activity

INVENTOR(S): Gaster, Laramie Mary; Rami, Harshad Kantilal; Wyman, Paul Adrian

PATENT ASSIGNEE(S): Smithkline Beecham PLC, UK

SOURCE: PCT Int. Appl., 119 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

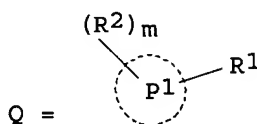
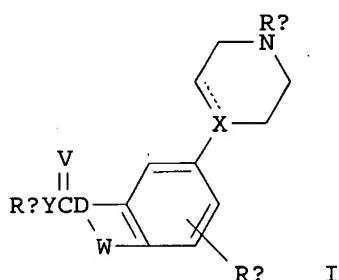
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9850358	A1	19981112	WO 1998-EP2262	19980414
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9874310	A1	19981127	AU 1998-74310	19980414
AU 732863	B2	20010503		

EP 975593	A1	20000202	EP 1998-921462	19980414
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI				
JP 2001524116	T2	20011127	JP 1998-547660	19980414
BR 9809092	A	20020122	BR 1998-9092	19980414
ZA 9803242	A	19991018	ZA 1998-3242	19980417
NO 9905065	A	19991015	NO 1999-5065	19991015
MX 9909583	A	20000331	MX 1999-9583	19991018
PRIORITY APPLN. INFO.:			GB 1997-7829	A 19970418
			GB 1998-1882	A 19980129
			WO 1998-EP2262	W 19980414
OTHER SOURCE(S):		MARPAT 130:13915		
GI				



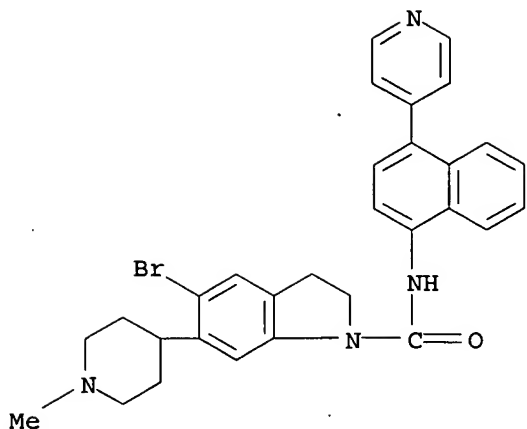
AB The title compds. I [Ra is a group of formula Q, in which P1 is Ph, bicyclic aryl, a 5- to 7-membered heterocyclic ring contg. 1 to 3 heteroatoms selected from oxygen, nitrogen and sulfur, or a bicyclic heterocyclic ring contg. 1 to 3 heteroatoms selected from oxygen, nitrogen and sulfur; R1 = H, halo, C1-6alkyl, C3-6cycloalkyl, COC1-6alkyl, C1-6alkoxy, hydroxy, hydroxyC1-6alkyl, hydroxyC1-6alkoxy, C1-6alkoxyC1-6alkoxy, C1-6alkanoyl, nitro, trifluoromethyl, cyano, SR9, SOR9, SO2R9, SO2NR10R11, CO2R10, CONR10R11, CO2NR10R11, CONR10(CH2)cCO2R11, (CH2)cNR10R11, (CH2)cCONR10R11, (CH2)cNR10COR11, (CH2)cCO2C1-6alkyl, CO2(CH2)cOR10, NR10R11, NR10CO2R11, NR10CONR10R11, CR10:NOR11, NR10COOR11, CNR10:NOR11, where R10 and R11 are independently hydrogen or C1-6alkyl and c is 1 to 4; R2 = H, halo, C1-6alkyl, C3-6cycloalkyl, C3-6cycloalkenyl, C1-6alkoxy, acyl, aryl, acyloxy, hydroxy, nitro, trifluoromethyl, cyano, CO2R10, CONR10R11, NR10R11 where R10 and R11 are as defined for R1; a is 1, 2 or 3; or Ra is a group contg. bridged rings; Y = NH, alkylamino, CH2, O; V = O, S; D = N, C, CH; W = (CR16R17)t where t = 2-4 and R16 and R17 = H, alkyl, etc.; Rb = H, halo, OH, etc.; Rc = H, alkyl] were prepd. and their 5HT1A, 5HT1B, and 5HT1D receptor binding detd. E.g., 5-methoxy-6-(4-methylpiperazin-1-yl)indole was treated with KOCMe3, then with 4-bromo-3-methylphenyl isocyanate to give 1-[(4-bromo-3-methylphenyl)aminocarbonyl]-5-methoxy-6-(4-methylpiperazin-1-yl)indole.

IT 216058-44-5P 216058-51-4P 216058-52-5P

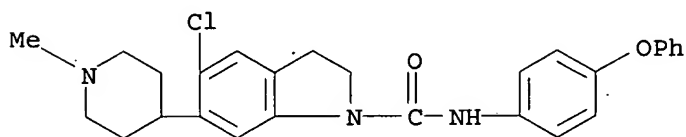
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of indole derivs. having combined 5HT1A, 5HT1B, and 5HT1D receptor antagonist activity)

RN 216058-44-5 CAPLUS

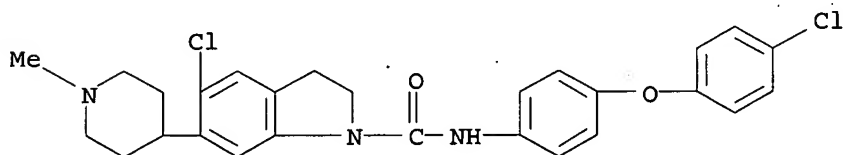
CN 1H-Indole-1-carboxamide, 5-bromo-2,3-dihydro-6-(1-methyl-4-piperidinyl)-N-[4-(4-pyridinyl)-1-naphthalenyl]- (9CI) (CA INDEX NAME)



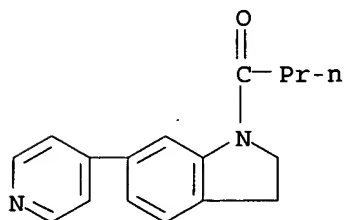
RN 216058-51-4 CAPLUS
 CN 1H-Indole-1-carboxamide, 5-chloro-2,3-dihydro-6-(1-methyl-4-piperidinyl)-N-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)



RN 216058-52-5 CAPLUS
 CN 1H-Indole-1-carboxamide, 5-chloro-N-[4-(4-chlorophenoxy)phenyl]-2,3-dihydro-6-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



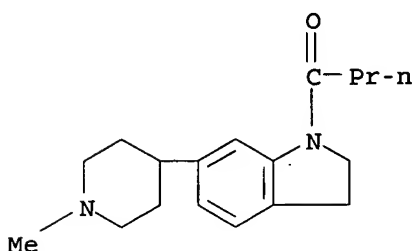
IT 216059-81-3P 216059-82-4P 216059-83-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of indole derivs. having combined 5HT1A, 5HT1B, and 5HT1D receptor antagonist activity)
 RN 216059-81-3 CAPLUS
 CN 1H-Indole, 2,3-dihydro-1-(1-oxobutyl)-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 216059-82-4 CAPLUS

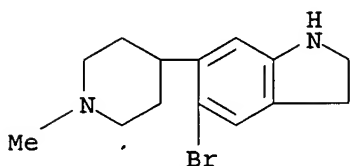
10/ 053,168

CN 1H-Indole, 2,3-dihydro-6-(1-methyl-4-piperidinyl)-1-(1-oxobutyl)- (9CI)
(CA INDEX NAME)



RN 216059-83-5 CAPLUS

CN 1H-Indole, 5-bromo-2,3-dihydro-6-(1-methyl-4-piperidinyl)- (9CI) (CA
INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:713359 CAPLUS

DOCUMENT NUMBER: 130:90081

TITLE: Inhibition of Monoamine Oxidase by Pirlindole Analogs:
3D-QSAR and CoMFA Analysis

AUTHOR(S): Medvedev, A. E.; Veselovsky, A. V.; Shvedov, V. I.;
Tikhonova, O. V.; Moskvitina, T. A.; Fedotova, O. A.;
Axenova, L. N.; Kamyshanskaya, N. S.; Kinkel, A. Z.;
Ivanov, A. S.

CORPORATE SOURCE: Laboratory of Biochemistry of Amines and Laboratory of
Molecular Graphics Drug Design Institute of Biomedical
Chemistry, Russian Academy of Medical Sciences,
Moscow, 119832, Russia

SOURCE: Journal of Chemical Information and Computer Sciences
(1998), 38(6), 1137-1144
CODEN: JCISD8; ISSN: 0095-2338

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of pyrazinocarbazoles, analogs of the short-acting antidepressant
pirlindole (2,3,3a,4,5,6-hexahydro-8-methyl-1H-pyrazino[3,2,1-
j,k]carbazole hydrochloride), were tested as inhibitors of monoamine
oxidase A (MAO-A) and B (MAO-B). Rigid analogs exhibited potent and
selective inhibition of MAO-A and have size limits (X:Y:Z) of 13.0 .times.
7.0 .times. 4.4 .ANG.. Besides MAO-A inhibition flexible analogs also
demonstrated potent inhibition of MAO-B and in contrast to rigid analogs
their inhibitory activity did not show the dependence on these sizes. The
qual. information (steric and electrostatic coeffs.) from the 3D-QSAR with
CoMFA models for MAO-A and -B are different, and this information can be
used to det. the structural features influencing inhibitor selectivity.

IT 219518-43-1

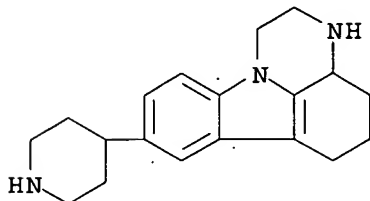
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

10/ 053,168

study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(3D-QSAR and CoMFA anal. in relation to inhibition of monoamine oxidase
by Pirlindole analogs)

RN 219518-43-1 CAPLUS

CN 1H-Pyrazino[3,2,1-jk]carbazole, 2,3,3a,4,5,6-hexahydro-8-(4-piperidinyl)-
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 12:05:21 ON 07 JUN 2003)

FILE 'REGISTRY' ENTERED AT 12:05:34 ON 07 JUN 2003

L1 STRUCTURE UPLOADED

L2 174 S L1 FUL

FILE 'CAPLUS' ENTERED AT 12:06:06 ON 07 JUN 2003

L3 35 S L2

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SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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